

U. S. DEPARTMENT OF COMMERCE  
NATIONAL BUREAU OF STANDARDS

**NATIONAL STANDARD  
PETROLEUM OIL TABLES**

Circular C410 (Superseding Circular C154)

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**CIRCULAR OF THE NATIONAL BUREAU OF STANDARDS C410**

**[Superseding Circular C154]**

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**NATIONAL STANDARD  
PETROLEUM OIL TABLES**

**PREPARED BY**

**NATIONAL BUREAU OF STANDARDS**

**APPROVED BY**

**AMERICAN PETROLEUM INSTITUTE**

**AMERICAN SOCIETY FOR TESTING  
MATERIALS**

**U. S. BUREAU OF MINES**

**NATIONAL BUREAU OF STANDARDS**

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# NATIONAL STANDARD PETROELUM OIL TABLES

## ABSTRACT

The tables given are based on an investigation of American petroleum oils carried out by the National Bureau of Standards, and the arrangement is largely according to the recommendations of a committee appointed by the American Petroleum Institute to represent the petroleum industry.

In order to overcome the confusion that has existed in the petroleum-oil industry by reason of the use of two so-called Baumé scales for light liquids, the American Petroleum Institute, the U. S. Bureau of Mines, and the National Bureau of Standards, in December 1921, agreed to recommend that in the future only the scale based on the modulus 141.5 be used in the petroleum-oil industry, and that it be known as the A. P. I. scale. The relation of degrees A. P. I. to specific gravity is expressed by the formula

$$\text{Degrees A. P. I.} = \frac{141.5}{\text{sp gr } 60^{\circ}/60^{\circ} \text{ F}} - 131.5.$$

A certain degree of accuracy in the determination of the temperature is essential in order to have results that are comparable with the determination of the gravity of the oil.

Tables 1, 2, and 3 give the degrees A. P. I., the volume, and the specific gravity of oil at 60° F from the values observed at other temperatures. Tables 4 and 5 give the relation between specific gravity, degrees A. P. I., pounds per gallon, and gallons per pound. Table 6 gives the degrees A. P. I. (modulus 141.5) corresponding to degrees Baumé (modulus 140).

Tables 1, 2, 4, and 5 in this revised edition have been extended to include oils having specific gravities from 1.000 to 1.076; that is, oils covering the A. P. I. range of 10 to 0 degrees.

Table 3 has not been so extended as this table appears to be little used in the oil industry. The information, in terms of specific gravity, for the extended range can be obtained, if desired, by use of tables 4 and 1.

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## I. INTRODUCTION.

### 1. BASIS OF TABLES.

The tables contained in this circular are based largely on an investigation of American petroleum oils carried out by the

Bureau of Standards in 1912-1915 and published in Technologic Paper No. 77. The original information has been supplemented by additional investigation of the rate of expansion of oils at temperatures beyond the range originally covered.

## 2. ARRANGEMENT AND RANGE OF TABLES.

The arrangement of the tables and also the density and temperature range covered have been given careful consideration both by the bureau and by a special committee appointed by the American Petroleum Institute to represent the petroleum industry.

## 3. ORIGIN OF THE AMERICAN PETROLEUM INSTITUTE (A. P. I.) SCALE.

When the Bureau of Standards first took up the testing of hydrometers in 1904, careful inquiry was made of the manufacturers and users of these instruments as to the basis of the various scales in common use.

In the case of hydrometers for petroleum oils the scale said to be in general use was the so-called Baumé scale for liquids lighter than water. The relation of this scale to specific gravity is expressed by the formula

$$\text{Degrees Baumé} = \frac{140}{\text{sp. gr. } 60^{\circ}/60^{\circ} \text{ F.}} - 130.$$

Subsequently, it was learned that a great number of the hydrometers used in the oil trade were not on the basis of the above relation, but were more nearly in agreement with a scale represented by substituting 141.5 and 131.5 in the above formula in place of 140 and 130. Accordingly, new tables were published by a manufacturer of hydrometers and by oil companies on this basis; that is, the actual hydrometer scales were continued unchanged and the relation to specific gravity was redefined, the new scale still being commonly known as the Baumé scale. At the same time other manufacturers and users of oil hydrometers continued the use of the original Baumé scale. As a result much confusion has existed in the petroleum-oil industry by reason of the use of two so-called Baumé scales for light liquids, one based on the modulus 140 and the other on the modulus 141.5.

The American Petroleum Institute, the U. S. Bureau of Mines, and the U. S. Bureau of Standards in December, 1921, agreed to recommend that in the future only the scale based on the modulus 141.5 be used in the petroleum-oil industry, and that it be known as the A. P. I. scale, to clearly distinguish it from the original Baumé scale for light liquids.

In order to make possible the use during the transition period of such Baumé hydrometers as may be on hand, there is included in this circular a table showing the degrees A. P. I. (modulus 141.5) corresponding to degrees Baumé (modulus 140). (See Table 6.)

#### 4. SPECIFIC GRAVITY AND POUNDS PER GALLON.

Specific gravity, as used in this circular, is defined as the ratio of the weight of a given volume of oil at 60° F. to the weight of the same volume of water at the same temperature, all weighings being corrected for the buoyancy of air.

The weight per gallon of oil is the apparent weight of a volume of 231 cubic inches of oil at 60° F. when weighed in air, of 50 per cent humidity, and at a pressure of 760 mm of mercury, and against brass weights of 8.4 density or against weights reduced to that basis. The assumed weight of a gallon of water at 60° F. in air is 8.32828 pounds.

#### 5. CALCULATION OF WEIGHT PER GALLON.

Specific gravity, as used throughout this circular, is "true specific gravity"; that is, all weighings are corrected for the buoyancy of the air. It is necessary, therefore, to change these values to "apparent specific gravity" before they can be multiplied by the weight of a gallon of water to give the weight of a gallon of oil at 60° F. in air.

The magnitude of the correction to specific gravity is shown in the following table:

| True specific gravity<br>at 60°/60° F. | Correction. | Apparent<br>specific<br>gravity at<br>60°/60° F. |
|----------------------------------------|-------------|--------------------------------------------------|
| 0.60 . . . . .                         | —0.00047    | 0.59953                                          |
| .70 . . . . .                          | — .00035    | .69965                                           |
| .80 . . . . .                          | — .00023    | .79977                                           |
| .90 . . . . .                          | — .00012    | .89988                                           |
| 1.00 . . . . .                         | .00000      | 1.00000                                          |

The necessary change of specific-gravity basis has been made in the calculation of the tables, and the only reason for calling attention to it is to point out the reason why the tabulated weights per gallon, as given in the tables, are not obtained by a simple multiplication of the specific gravity at 60° F. by the weight of a gallon of water at 60° F. in air.

## 6. APPLICABILITY OF THE TABLES.

The tables given in this circular apply to all petroleum oils, both crude and refined, produced in the United States. Each grade of oil, gasoline, illuminating oil, lubricating and fuel oil, etc., falls into its proper place in the tables by reason of its specific gravity.<sup>1</sup>

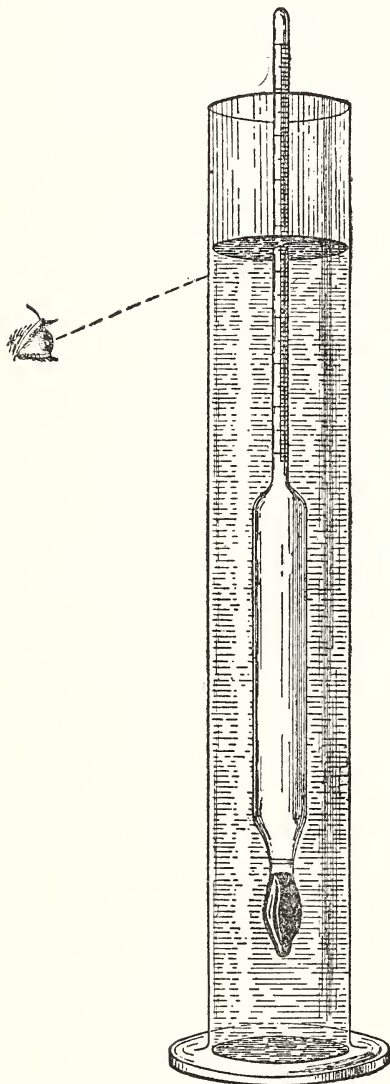


FIG. 1.

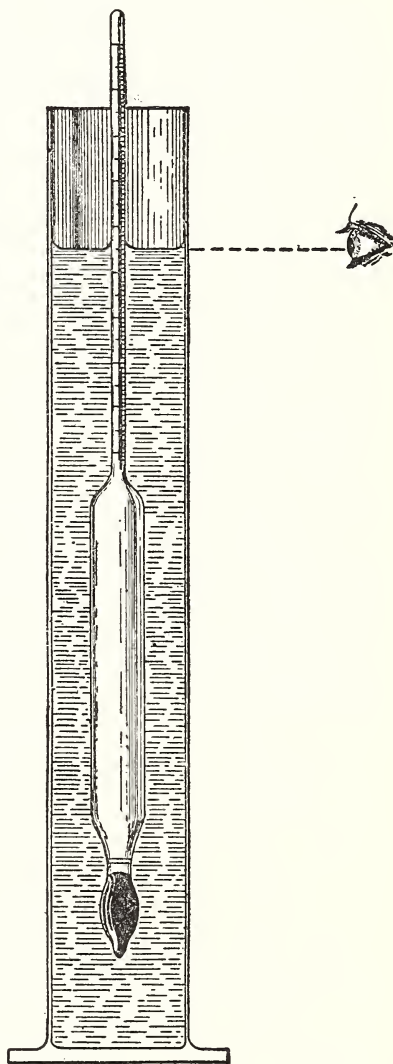


FIG. 2.

Although it is generally believed that California oils have a considerably higher rate of expansion than do oils from the

<sup>1</sup> In the case of oils containing paraffin or other materials that become solid at low temperatures the expansion shown by the tables is somewhat too small at temperatures below the point of solidification.

Central and Eastern States, this has not been found to be the case, and the slightly higher rate is not sufficient to cause an appreciable error in the results given in the tables.

#### 7. METHOD OF READING THE HYDROMETER.

The correct method of reading the hydrometer is illustrated in Figures 1 and 2. The sample of oil is placed in a clear glass jar or cylinder and the hydrometer carefully immersed in it to a point slightly below that to which it naturally sinks and is then allowed to float freely.

The reading should not be taken until the oil and the hydrometer are free from air bubbles and are at rest. In taking the reading the eye should be placed slightly below the plane of the surface of the oil (fig. 1) and then raised slowly until this surface, seen as an ellipse, becomes a straight line (fig. 2). The point at which this line cuts the hydrometer scale should be taken as the reading of the instrument (fig. 2).

In case the oil is not sufficiently clear to allow the reading to be made as above described, it will be necessary to read from above the oil surface and to estimate as accurately as possible the point to which the oil rises on the hydrometer stem. It should be remembered, however, that the instrument is calibrated to give correct indications when read at the principal surface of the liquid. It will be necessary, therefore, to correct the reading at the upper meniscus by an amount equal to the height to which the oil creeps up on the stem of the hydrometer. The amount of this correction may be determined with sufficient accuracy for most purposes by taking a few readings on the upper and the lower meniscus in a clear oil and noting the differences.

A specific-gravity hydrometer will read too low and an A. P. I. hydrometer too high when read at the upper edge of the meniscus. The correction for meniscus height should, therefore, be added to a specific-gravity reading and subtracted from an A. P. I. reading.

The magnitude of the correction will obviously depend upon the length and value of the subdivisions of the hydrometer scale and must be determined in each case for the particular hydrometer in question.

#### 8. DETERMINATION OF TEMPERATURE.

The determination of the temperature of an oil should be made to a degree of accuracy that is comparable with the accuracy of



the determination of the gravity of the oil. If the reading of an A. P. I. hydrometer is made to the nearest 0.1 degree A. P. I., it is necessary that the temperature measurement be made to 1° F. for an oil having an A. P. I. reading of about 58. For an oil having a reading of 90 degrees A. P. I. the temperature measurement must be made to 0.5° F., while for an oil of 10 degrees A. P. I. the temperature measurement may be taken to the nearest 2° F. and have the same order of accuracy as the determination of A. P. I. gravity. It is therefore necessary that the thermometer be corrected for errors in calibration, so that the temperature as determined may be well within the limits given above.

If the thermometer is not made as a part of the hydrometer, the thermometer should be so placed that the bulb can assume the temperature of the oil, and as much of the mercury column as is feasible should be immersed. This is of considerable importance, especially if the temperature of the oil differs greatly from that of the surrounding air. For example, if the temperature of the oil equals 200° F. an emergent column of 50° F. on the scale (approximately 2 inches) will cause an error in the temperature measurement of about 0.5° F., provided the average temperature of the emergent column equals 90° F.

In reading a thermometer accurately care must be taken that the line of sight is perpendicular to the thermometer scale in order to avoid parallax.

TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.

[This table shows the degrees A. P. I. at 60° F. of oils having, at the observed temperatures, the degrees A. P. I. indicated. For example, if the observed degrees A. P. I. at 78° F. is 20.0, the degrees A. P. I. at 60° F. will be 19.0. Intermediate values can be conveniently interpolated. For example, if the observed degrees A. P. I. at 78° F. is 20.4, the degrees A. P. I. at 60° F. will be 19.4. The headings "Observed degrees A. P. I." and "Observed temperature" signify the true indication of the hydrometer and the true temperature of the oils; that is, the observed readings corrected for instrumental errors. (This table is so computed as to take into account the thermal expansion of the glass of which the hydrometer is made.)]



TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.

| Observed temperature in °F. | Observed degrees A. P. I.                |     |     |     |     |     |     |     |      |      |
|-----------------------------|------------------------------------------|-----|-----|-----|-----|-----|-----|-----|------|------|
|                             | 0                                        | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8    | 9    |
|                             | Corresponding degrees A. P. I. at 60° F. |     |     |     |     |     |     |     |      |      |
| 0.....                      | 2.5                                      | 3.5 | 4.6 | 5.7 | 6.7 | 7.8 | 8.8 | 9.9 | 11.0 | 12.0 |
| 1.....                      | 2.4                                      | 3.5 | 4.6 | 5.6 | 6.7 | 7.7 | 8.8 | 9.9 | 10.9 | 12.0 |
| 2.....                      | 2.4                                      | 3.5 | 4.5 | 5.6 | 6.6 | 7.7 | 8.8 | 9.8 | 10.9 | 11.9 |
| 3.....                      | 2.4                                      | 3.4 | 4.5 | 5.5 | 6.6 | 7.6 | 8.7 | 9.8 | 10.8 | 11.9 |
| 4.....                      | 2.3                                      | 3.4 | 4.4 | 5.5 | 6.5 | 7.6 | 8.7 | 9.7 | 10.8 | 11.8 |
| 5.....                      | 2.3                                      | 3.3 | 4.4 | 5.4 | 6.5 | 7.6 | 8.6 | 9.7 | 10.7 | 11.8 |
| 6.....                      | 2.2                                      | 3.3 | 4.3 | 5.4 | 6.5 | 7.5 | 8.6 | 9.6 | 10.7 | 11.7 |
| 7.....                      | 2.2                                      | 3.2 | 4.3 | 5.4 | 6.4 | 7.5 | 8.5 | 9.6 | 10.6 | 11.7 |
| 8.....                      | 2.2                                      | 3.2 | 4.3 | 5.3 | 6.4 | 7.4 | 8.5 | 9.5 | 10.6 | 11.6 |
| 9.....                      | 2.1                                      | 3.2 | 4.2 | 5.3 | 6.3 | 7.4 | 8.4 | 9.5 | 10.5 | 11.6 |
| 10.....                     | 2.1                                      | 3.1 | 4.2 | 5.2 | 6.3 | 7.3 | 8.4 | 9.4 | 10.5 | 11.5 |
| 11.....                     | 2.0                                      | 3.1 | 4.1 | 5.2 | 6.2 | 7.3 | 8.3 | 9.4 | 10.4 | 11.5 |
| 12.....                     | 2.0                                      | 3.0 | 4.1 | 5.1 | 6.2 | 7.2 | 8.3 | 9.3 | 10.4 | 11.4 |
| 13.....                     | 1.9                                      | 3.0 | 4.0 | 5.1 | 6.1 | 7.2 | 8.2 | 9.3 | 10.3 | 11.4 |
| 14.....                     | 1.9                                      | 2.9 | 4.0 | 5.0 | 6.1 | 7.1 | 8.2 | 9.2 | 10.3 | 11.3 |
| 15.....                     | 1.9                                      | 2.9 | 3.9 | 5.0 | 6.0 | 7.1 | 8.1 | 9.2 | 10.2 | 11.3 |
| 16.....                     | 1.8                                      | 2.9 | 3.9 | 4.9 | 6.0 | 7.0 | 8.1 | 9.1 | 10.2 | 11.2 |
| 17.....                     | 1.8                                      | 2.8 | 3.9 | 4.9 | 5.9 | 7.0 | 8.0 | 9.1 | 10.1 | 11.2 |
| 18.....                     | 1.7                                      | 2.8 | 3.8 | 4.9 | 5.9 | 6.9 | 8.0 | 9.0 | 10.1 | 11.1 |
| 19.....                     | 1.7                                      | 2.7 | 3.8 | 4.8 | 5.9 | 6.9 | 7.9 | 9.0 | 10.0 | 11.1 |
| 20.....                     | 1.7                                      | 2.7 | 3.7 | 4.8 | 5.8 | 6.9 | 7.9 | 8.9 | 10.0 | 11.0 |
| 21.....                     | 1.6                                      | 2.7 | 3.7 | 4.7 | 5.8 | 6.8 | 7.9 | 8.9 | 9.9  | 11.0 |
| 22.....                     | 1.6                                      | 2.6 | 3.6 | 4.7 | 5.7 | 6.8 | 7.8 | 8.8 | 9.9  | 10.9 |
| 23.....                     | 1.5                                      | 2.6 | 3.6 | 4.6 | 5.7 | 6.7 | 7.8 | 8.8 | 9.8  | 10.9 |
| 24.....                     | 1.5                                      | 2.5 | 3.6 | 4.6 | 5.6 | 6.7 | 7.7 | 8.7 | 9.8  | 10.8 |
| 25.....                     | 1.5                                      | 2.5 | 3.5 | 4.6 | 5.6 | 6.6 | 7.7 | 8.7 | 9.7  | 10.8 |
| 26.....                     | 1.4                                      | 2.4 | 3.5 | 4.5 | 5.5 | 6.6 | 7.6 | 8.6 | 9.7  | 10.7 |
| 27.....                     | 1.4                                      | 2.4 | 3.4 | 4.5 | 5.5 | 6.5 | 7.6 | 8.6 | 9.6  | 10.7 |
| 28.....                     | 1.3                                      | 2.3 | 3.4 | 4.4 | 5.4 | 6.5 | 7.5 | 8.5 | 9.6  | 10.6 |
| 29.....                     | 1.3                                      | 2.3 | 3.3 | 4.4 | 5.4 | 6.4 | 7.5 | 8.5 | 9.5  | 10.6 |
| 30.....                     | 1.2                                      | 2.3 | 3.3 | 4.3 | 5.3 | 6.4 | 7.4 | 8.4 | 9.5  | 10.5 |
| 31.....                     | 1.2                                      | 2.2 | 3.2 | 4.3 | 5.3 | 6.3 | 7.4 | 8.4 | 9.4  | 10.4 |
| 32.....                     | 1.1                                      | 2.2 | 3.2 | 4.2 | 5.3 | 6.3 | 7.3 | 8.3 | 9.4  | 10.4 |
| 33.....                     | 1.1                                      | 2.1 | 3.2 | 4.2 | 5.2 | 6.2 | 7.3 | 8.3 | 9.3  | 10.3 |
| 34.....                     | 1.1                                      | 2.1 | 3.1 | 4.1 | 5.2 | 6.2 | 7.2 | 8.2 | 9.3  | 10.3 |
| 35.....                     | 1.0                                      | 2.0 | 3.1 | 4.1 | 5.1 | 6.1 | 7.2 | 8.2 | 9.2  | 10.2 |
| 36.....                     | 1.0                                      | 2.0 | 3.0 | 4.0 | 5.1 | 6.1 | 7.1 | 8.1 | 9.2  | 10.2 |
| 37.....                     | .9                                       | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.1 | 8.1 | 9.1  | 10.1 |
| 38.....                     | .9                                       | 1.9 | 2.9 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.1  | 10.1 |
| 39.....                     | .9                                       | 1.9 | 2.9 | 3.9 | 4.9 | 6.0 | 7.0 | 8.0 | 9.0  | 10.0 |
| 40.....                     | .8                                       | 1.8 | 2.9 | 3.9 | 4.9 | 5.9 | 6.9 | 7.9 | 9.0  | 10.0 |
| 41.....                     | .8                                       | 1.8 | 2.8 | 3.8 | 4.8 | 5.9 | 6.9 | 7.9 | 8.9  | 9.9  |
| 42.....                     | .7                                       | 1.7 | 2.8 | 3.8 | 4.8 | 5.8 | 6.8 | 7.8 | 8.9  | 9.9  |
| 43.....                     | .7                                       | 1.7 | 2.7 | 3.7 | 4.7 | 5.8 | 6.8 | 7.8 | 8.8  | 9.8  |
| 44.....                     | .7                                       | 1.7 | 2.7 | 3.7 | 4.7 | 5.7 | 6.7 | 7.7 | 8.8  | 9.8  |
| 45.....                     | .6                                       | 1.6 | 2.6 | 3.6 | 4.7 | 5.7 | 6.7 | 7.7 | 8.7  | 9.7  |
| 46.....                     | .6                                       | 1.6 | 2.6 | 3.6 | 4.6 | 5.6 | 6.6 | 7.7 | 8.7  | 9.7  |
| 47.....                     | .5                                       | 1.5 | 2.5 | 3.6 | 4.6 | 5.6 | 6.6 | 7.6 | 8.6  | 9.6  |
| 48.....                     | .5                                       | 1.5 | 2.5 | 3.5 | 4.5 | 5.5 | 6.5 | 7.6 | 8.6  | 9.6  |
| 49.....                     | .5                                       | 1.5 | 2.5 | 3.5 | 4.5 | 5.5 | 6.5 | 7.5 | 8.5  | 9.5  |
| 50.....                     | .4                                       | 1.4 | 2.4 | 3.4 | 4.4 | 5.5 | 6.5 | 7.5 | 8.5  | 9.5  |
| 51.....                     | .4                                       | 1.4 | 2.4 | 3.4 | 4.4 | 5.4 | 6.4 | 7.4 | 8.4  | 9.4  |
| 52.....                     | .3                                       | 1.3 | 2.3 | 3.4 | 4.4 | 5.4 | 6.4 | 7.4 | 8.4  | 9.4  |
| 53.....                     | .3                                       | 1.3 | 2.3 | 3.3 | 4.3 | 5.3 | 6.3 | 7.3 | 8.3  | 9.3  |
| 54.....                     | .2                                       | 1.3 | 2.3 | 3.3 | 4.3 | 5.3 | 6.3 | 7.3 | 8.3  | 9.3  |
| 55.....                     | .2                                       | 1.2 | 2.2 | 3.2 | 4.2 | 5.2 | 6.2 | 7.2 | 8.2  | 9.2  |
| 56.....                     | .2                                       | 1.2 | 2.2 | 3.2 | 4.2 | 5.2 | 6.2 | 7.2 | 8.2  | 9.2  |
| 57.....                     | .1                                       | 1.1 | 2.1 | 3.1 | 4.1 | 5.1 | 6.1 | 7.1 | 8.1  | 9.1  |
| 58.....                     | .1                                       | 1.1 | 2.1 | 3.1 | 4.1 | 5.1 | 6.1 | 7.1 | 8.1  | 9.1  |
| 59.....                     | .0                                       | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0  | 9.0  |
| 60.....                     | .0                                       | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0  | 9.0  |
| 61.....                     | .....                                    | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0  | 9.0  |
| 62.....                     | .....                                    | .9  | 1.9 | 2.9 | 3.9 | 4.9 | 5.9 | 6.9 | 7.9  | 8.9  |
| 63.....                     | .....                                    | .9  | 1.9 | 2.9 | 3.9 | 4.9 | 5.9 | 6.9 | 7.9  | 8.9  |
| 64.....                     | .....                                    | .8  | 1.8 | 2.8 | 3.8 | 4.8 | 5.8 | 6.8 | 7.8  | 8.8  |

TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in °F. | Observed degrees A. P. I.                |     |     |     |     |     |     |     |     |     |
|-----------------------------|------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                             | 0                                        | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   |
|                             | Corresponding degrees A. P. I. at 60° F. |     |     |     |     |     |     |     |     |     |
| 65.....                     |                                          | 0.8 | 1.8 | 2.8 | 3.8 | 4.8 | 5.8 | 6.8 | 7.8 | 8.8 |
| 66.....                     |                                          | .7  | 1.7 | 2.7 | 3.7 | 4.7 | 5.7 | 6.7 | 7.7 | 8.7 |
| 67.....                     |                                          | .7  | 1.7 | 2.7 | 3.7 | 4.7 | 5.7 | 6.7 | 7.7 | 8.7 |
| 68.....                     |                                          | .7  | 1.7 | 2.7 | 3.6 | 4.6 | 5.6 | 6.6 | 7.6 | 8.6 |
| 69.....                     |                                          | .6  | 1.6 | 2.6 | 3.6 | 4.6 | 5.6 | 6.6 | 7.6 | 8.6 |
| 70.....                     |                                          | .6  | 1.6 | 2.6 | 3.6 | 4.6 | 5.5 | 6.5 | 7.5 | 8.5 |
| 71.....                     |                                          | .5  | 1.5 | 2.5 | 3.5 | 4.5 | 5.5 | 6.5 | 7.5 | 8.5 |
| 72.....                     |                                          | .5  | 1.5 | 2.5 | 3.5 | 4.5 | 5.4 | 6.4 | 7.4 | 8.4 |
| 73.....                     |                                          | .5  | 1.4 | 2.4 | 3.4 | 4.4 | 5.4 | 6.4 | 7.4 | 8.4 |
| 74.....                     |                                          | .4  | 1.4 | 2.4 | 3.4 | 4.4 | 5.4 | 6.3 | 7.3 | 8.3 |
| 75.....                     |                                          | .4  | 1.4 | 2.4 | 3.3 | 4.3 | 5.3 | 6.3 | 7.3 | 8.3 |
| 76.....                     |                                          | .3  | 1.3 | 2.3 | 3.3 | 4.3 | 5.3 | 6.2 | 7.2 | 8.2 |
| 77.....                     |                                          | .3  | 1.3 | 2.3 | 3.2 | 4.2 | 5.2 | 6.2 | 7.2 | 8.2 |
| 78.....                     |                                          | .3  | 1.2 | 2.2 | 3.2 | 4.2 | 5.2 | 6.2 | 7.1 | 8.1 |
| 79.....                     |                                          | .2  | 1.2 | 2.2 | 3.2 | 4.1 | 5.1 | 6.1 | 7.1 | 8.1 |
| 80.....                     |                                          | .2  | 1.1 | 2.1 | 3.1 | 4.1 | 5.1 | 6.1 | 7.1 | 8.0 |
| 81.....                     |                                          | .1  | 1.1 | 2.1 | 3.1 | 4.1 | 5.1 | 6.0 | 7.0 | 8.0 |
| 82.....                     |                                          | .1  | 1.1 | 2.1 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 |
| 83.....                     |                                          | .0  | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 5.9 | 6.9 | 7.9 |
| 84.....                     |                                          |     | 1.0 | 2.0 | 2.9 | 3.9 | 4.9 | 5.9 | 6.9 | 7.9 |
| 85.....                     |                                          |     | .9  | 1.9 | 2.9 | 3.9 | 4.9 | 5.9 | 6.8 | 7.8 |
| 86.....                     |                                          |     | .9  | 1.9 | 2.9 | 3.8 | 4.8 | 5.8 | 6.8 | 7.8 |
| 87.....                     |                                          |     | .9  | 1.8 | 2.8 | 3.8 | 4.8 | 5.8 | 6.7 | 7.7 |
| 88.....                     |                                          |     | .8  | 1.8 | 2.8 | 3.8 | 4.7 | 5.7 | 6.7 | 7.7 |
| 89.....                     |                                          |     | .8  | 1.8 | 2.7 | 3.7 | 4.7 | 5.7 | 6.6 | 7.6 |
| 90.....                     |                                          |     | .7  | 1.7 | 2.7 | 3.7 | 4.6 | 5.6 | 6.6 | 7.6 |
| 91.....                     |                                          |     | .7  | 1.7 | 2.6 | 3.6 | 4.6 | 5.6 | 6.5 | 7.5 |
| 92.....                     |                                          |     | .6  | 1.6 | 2.6 | 3.6 | 4.6 | 5.5 | 6.5 | 7.5 |
| 93.....                     |                                          |     | .6  | 1.6 | 2.6 | 3.5 | 4.5 | 5.5 | 6.4 | 7.4 |
| 94.....                     |                                          |     | .6  | 1.5 | 2.5 | 3.5 | 4.5 | 5.4 | 6.4 | 7.4 |
| 95.....                     |                                          |     | .5  | 1.5 | 2.5 | 3.4 | 4.4 | 5.4 | 6.4 | 7.3 |
| 96.....                     |                                          |     | .5  | 1.4 | 2.4 | 3.4 | 4.4 | 5.3 | 6.3 | 7.3 |
| 97.....                     |                                          |     | .4  | 1.4 | 2.4 | 3.4 | 4.3 | 5.3 | 6.3 | 7.2 |
| 98.....                     |                                          |     | .4  | 1.4 | 2.3 | 3.3 | 4.3 | 5.2 | 6.2 | 7.2 |
| 99.....                     |                                          |     | .3  | 1.3 | 2.3 | 3.3 | 4.2 | 5.2 | 6.2 | 7.1 |
| 100.....                    |                                          |     | .3  | 1.3 | 2.3 | 3.2 | 4.2 | 5.2 | 6.1 | 7.1 |
| 101.....                    |                                          |     | .3  | 1.2 | 2.2 | 3.2 | 4.2 | 5.1 | 6.1 | 7.1 |
| 102.....                    |                                          |     | .2  | 1.2 | 2.2 | 3.1 | 4.1 | 5.1 | 6.0 | 7.0 |
| 103.....                    |                                          |     | .2  | 1.2 | 2.1 | 3.1 | 4.1 | 5.0 | 6.0 | 7.0 |
| 104.....                    |                                          |     | .1  | 1.1 | 2.1 | 3.1 | 4.0 | 5.0 | 5.9 | 6.9 |
| 105.....                    |                                          |     | .1  | 1.1 | 2.0 | 3.0 | 4.0 | 4.9 | 5.9 | 6.9 |
| 106.....                    |                                          |     | .1  | 1.0 | 2.0 | 3.0 | 3.9 | 4.9 | 5.9 | 6.8 |
| 107.....                    |                                          |     | .0  | 1.0 | 2.0 | 2.9 | 3.9 | 4.8 | 5.8 | 6.8 |
| 108.....                    |                                          |     |     | 1.0 | 1.9 | 2.9 | 3.8 | 4.8 | 5.8 | 6.7 |
| 109.....                    |                                          |     |     | .9  | 1.9 | 2.8 | 3.8 | 4.8 | 5.7 | 6.7 |
| 110.....                    |                                          |     |     | .9  | 1.8 | 2.8 | 3.8 | 4.7 | 5.7 | 6.6 |
| 111.....                    |                                          |     |     | .8  | 1.8 | 2.7 | 3.7 | 4.7 | 5.6 | 6.6 |
| 112.....                    |                                          |     |     | .8  | 1.7 | 2.7 | 3.7 | 4.6 | 5.6 | 6.5 |
| 113.....                    |                                          |     |     | .7  | 1.7 | 2.7 | 3.6 | 4.6 | 5.5 | 6.5 |
| 114.....                    |                                          |     |     | .7  | 1.7 | 2.6 | 3.6 | 4.5 | 5.5 | 6.4 |
| 115.....                    |                                          |     |     | .7  | 1.6 | 2.6 | 3.5 | 4.5 | 5.4 | 6.4 |
| 116.....                    |                                          |     |     | .6  | 1.6 | 2.5 | 3.5 | 4.4 | 5.4 | 6.4 |
| 117.....                    |                                          |     |     | .6  | 1.5 | 2.5 | 3.4 | 4.4 | 5.4 | 6.3 |
| 118.....                    |                                          |     |     | .5  | 1.5 | 2.4 | 3.4 | 4.3 | 5.3 | 6.3 |
| 119.....                    |                                          |     |     | .5  | 1.4 | 2.4 | 3.4 | 4.3 | 5.3 | 6.2 |
| 120.....                    |                                          |     |     | .4  | 1.4 | 2.4 | 3.3 | 4.3 | 5.2 | 6.2 |
| 121.....                    |                                          |     |     | .4  | 1.4 | 2.3 | 3.3 | 4.2 | 5.2 | 6.1 |
| 122.....                    |                                          |     |     | .4  | 1.3 | 2.3 | 3.2 | 4.2 | 5.1 | 6.1 |
| 123.....                    |                                          |     |     | .3  | 1.3 | 2.2 | 3.2 | 4.1 | 5.1 | 6.0 |
| 124.....                    |                                          |     |     | .3  | 1.2 | 2.2 | 3.1 | 4.1 | 5.0 | 6.0 |
| 125.....                    |                                          |     |     | .2  | 1.2 | 2.1 | 3.1 | 4.0 | 5.0 | 5.9 |
| 126.....                    |                                          |     |     | .2  | 1.1 | 2.1 | 3.0 | 4.0 | 4.9 | 5.9 |
| 127.....                    |                                          |     |     | .2  | 1.1 | 2.1 | 3.0 | 4.0 | 4.9 | 5.9 |
| 128.....                    |                                          |     |     | .1  | 1.1 | 2.0 | 3.0 | 3.9 | 4.9 | 5.8 |
| 129.....                    |                                          |     |     | .1  | 1.0 | 2.0 | 2.9 | 3.9 | 4.8 | 5.8 |

TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in °F. | Observed degrees A. P. I.                |   |   |     |     |     |     |     |     |     |
|-----------------------------|------------------------------------------|---|---|-----|-----|-----|-----|-----|-----|-----|
|                             | 0                                        | 1 | 2 | 3   | 4   | 5   | 6   | 7   | 8   | 9   |
|                             | Corresponding degrees A. P. I. at 60° F. |   |   |     |     |     |     |     |     |     |
| 130.....                    |                                          |   |   | 0.0 | 1.0 | 1.9 | 2.9 | 3.8 | 4.8 | 5.7 |
| 131.....                    |                                          |   |   |     | .9  | 1.9 | 2.8 | 3.8 | 4.7 | 5.7 |
| 132.....                    |                                          |   |   |     | .9  | 1.8 | 2.8 | 3.7 | 4.7 | 5.6 |
| 133.....                    |                                          |   |   |     | .9  | 1.8 | 2.8 | 3.7 | 4.6 | 5.6 |
| 134.....                    |                                          |   |   |     | .8  | 1.8 | 2.7 | 3.7 | 4.6 | 5.5 |
| 135.....                    |                                          |   |   |     | .8  | 1.7 | 2.7 | 3.6 | 4.6 | 5.5 |
| 136.....                    |                                          |   |   |     | .7  | 1.7 | 2.6 | 3.6 | 4.5 | 5.5 |
| 137.....                    |                                          |   |   |     | .7  | 1.6 | 2.6 | 3.5 | 4.5 | 5.4 |
| 138.....                    |                                          |   |   |     | .7  | 1.6 | 2.5 | 3.5 | 4.4 | 5.4 |
| 139.....                    |                                          |   |   |     | .6  | 1.6 | 2.5 | 3.5 | 4.4 | 5.3 |
| 140.....                    |                                          |   |   |     | .6  | 1.5 | 2.5 | 3.4 | 4.4 | 5.3 |
| 141.....                    |                                          |   |   |     | .5  | 1.5 | 2.4 | 3.4 | 4.3 | 5.2 |
| 142.....                    |                                          |   |   |     | .5  | 1.4 | 2.4 | 3.3 | 4.3 | 5.2 |
| 143.....                    |                                          |   |   |     | .5  | 1.4 | 2.3 | 3.3 | 4.2 | 5.2 |
| 144.....                    |                                          |   |   |     | .4  | 1.3 | 2.3 | 3.2 | 4.2 | 5.1 |
| 145.....                    |                                          |   |   |     | .4  | 1.3 | 2.3 | 3.2 | 4.1 | 5.1 |
| 146.....                    |                                          |   |   |     | .3  | 1.3 | 2.2 | 3.2 | 4.1 | 5.0 |
| 147.....                    |                                          |   |   |     | .3  | 1.2 | 2.2 | 3.1 | 4.1 | 5.0 |
| 148.....                    |                                          |   |   |     | .2  | 1.2 | 2.1 | 3.1 | 4.0 | 4.9 |
| 149.....                    |                                          |   |   |     | .2  | 1.1 | 2.1 | 3.0 | 4.0 | 4.9 |
| 150.....                    |                                          |   |   |     | .2  | 1.1 | 2.1 | 3.0 | 3.9 | 4.9 |
| 151.....                    |                                          |   |   |     | .1  | 1.1 | 2.0 | 3.0 | 3.9 | 4.8 |
| 152.....                    |                                          |   |   |     | .1  | 1.0 | 2.0 | 2.9 | 3.8 | 4.8 |
| 153.....                    |                                          |   |   |     | .0  | 1.0 | 1.9 | 2.9 | 3.8 | 4.7 |
| 154.....                    |                                          |   |   |     |     | .9  | 1.9 | 2.8 | 3.7 | 4.7 |
| 155.....                    |                                          |   |   |     |     | .9  | 1.8 | 2.8 | 3.7 | 4.6 |
| 156.....                    |                                          |   |   |     |     | .9  | 1.8 | 2.7 | 3.7 | 4.6 |
| 157.....                    |                                          |   |   |     |     | .8  | 1.8 | 2.7 | 3.6 | 4.5 |
| 158.....                    |                                          |   |   |     |     | .8  | 1.7 | 2.7 | 3.6 | 4.5 |
| 159.....                    |                                          |   |   |     |     | .7  | 1.7 | 2.6 | 3.5 | 4.5 |
| 160.....                    |                                          |   |   |     |     | .7  | 1.6 | 2.6 | 3.5 | 4.4 |
| 161.....                    |                                          |   |   |     |     | .7  | 1.6 | 2.5 | 3.5 | 4.4 |
| 162.....                    |                                          |   |   |     |     | .6  | 1.6 | 2.5 | 3.4 | 4.3 |
| 163.....                    |                                          |   |   |     |     | .6  | 1.5 | 2.5 | 3.4 | 4.3 |
| 164.....                    |                                          |   |   |     |     | .5  | 1.5 | 2.4 | 3.3 | 4.3 |
| 165.....                    |                                          |   |   |     |     | .5  | 1.4 | 2.4 | 3.3 | 4.2 |
| 166.....                    |                                          |   |   |     |     | .5  | 1.4 | 2.3 | 3.3 | 4.2 |
| 167.....                    |                                          |   |   |     |     | .4  | 1.4 | 2.3 | 3.2 | 4.1 |
| 168.....                    |                                          |   |   |     |     | .4  | 1.3 | 2.3 | 3.2 | 4.1 |
| 169.....                    |                                          |   |   |     |     | .3  | 1.3 | 2.2 | 3.1 | 4.1 |
| 170.....                    |                                          |   |   |     |     | .3  | 1.2 | 2.2 | 3.1 | 4.0 |
| 171.....                    |                                          |   |   |     |     | .3  | 1.2 | 2.1 | 3.1 | 4.0 |
| 172.....                    |                                          |   |   |     |     | .2  | 1.2 | 2.1 | 3.0 | 3.9 |
| 173.....                    |                                          |   |   |     |     | .2  | 1.1 | 2.0 | 3.0 | 3.9 |
| 174.....                    |                                          |   |   |     |     | .1  | 1.1 | 2.0 | 2.9 | 3.9 |
| 175.....                    |                                          |   |   |     |     | .1  | 1.0 | 2.0 | 2.9 | 3.8 |
| 176.....                    |                                          |   |   |     |     | .1  | 1.0 | 1.9 | 2.9 | 3.8 |
| 177.....                    |                                          |   |   |     |     | .0  | 1.0 | 1.9 | 2.8 | 3.7 |
| 178.....                    |                                          |   |   |     |     |     | .9  | 1.9 | 2.8 | 3.7 |
| 179.....                    |                                          |   |   |     |     |     | .9  | 1.8 | 2.7 | 3.7 |
| 180.....                    |                                          |   |   |     |     |     | .8  | 1.8 | 2.7 | 3.6 |
| 181.....                    |                                          |   |   |     |     |     | .8  | 1.7 | 2.7 | 3.6 |
| 182.....                    |                                          |   |   |     |     |     | .8  | 1.7 | 2.6 | 3.5 |
| 183.....                    |                                          |   |   |     |     |     | .7  | 1.7 | 2.6 | 3.5 |
| 184.....                    |                                          |   |   |     |     |     | .7  | 1.6 | 2.5 | 3.4 |
| 185.....                    |                                          |   |   |     |     |     | .6  | 1.6 | 2.5 | 3.4 |
| 186.....                    |                                          |   |   |     |     |     | .6  | 1.5 | 2.4 | 3.4 |
| 187.....                    |                                          |   |   |     |     |     | .6  | 1.5 | 2.4 | 3.3 |
| 188.....                    |                                          |   |   |     |     |     | .5  | 1.4 | 2.4 | 3.3 |
| 189.....                    |                                          |   |   |     |     |     | .5  | 1.4 | 2.3 | 3.2 |
| 190.....                    |                                          |   |   |     |     |     | .4  | 1.4 | 2.3 | 3.2 |
| 191.....                    |                                          |   |   |     |     |     | .4  | 1.3 | 2.2 | 3.2 |
| 192.....                    |                                          |   |   |     |     |     | .4  | 1.3 | 2.2 | 3.1 |
| 193.....                    |                                          |   |   |     |     |     | .3  | 1.2 | 2.2 | 3.1 |
| 194.....                    |                                          |   |   |     |     |     | .3  | 1.2 | 2.1 | 3.0 |
| 195.....                    |                                          |   |   |     |     |     | .2  | 1.2 | 2.1 | 3.0 |

TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in °F. | Observed degrees A. P. I.                |      |      |      |      |      |      |      |      |      |
|-----------------------------|------------------------------------------|------|------|------|------|------|------|------|------|------|
|                             | 10                                       | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   |
|                             | Corresponding degrees A. P. I. at 60° F. |      |      |      |      |      |      |      |      |      |
| 0.....                      | 13.1                                     | 14.1 | 15.2 | 16.2 | 17.3 | 18.3 | 19.4 | 20.4 | 21.5 | 22.5 |
| 1.....                      | 13.0                                     | 14.1 | 15.1 | 16.2 | 17.2 | 18.3 | 19.3 | 20.4 | 21.4 | 22.5 |
| 2.....                      | 13.0                                     | 14.0 | 15.1 | 16.1 | 17.2 | 18.2 | 19.3 | 20.3 | 21.4 | 22.4 |
| 3.....                      | 12.9                                     | 14.0 | 15.0 | 16.1 | 17.1 | 18.2 | 19.2 | 20.2 | 21.3 | 22.3 |
| 4.....                      | 12.9                                     | 13.9 | 15.0 | 16.0 | 17.1 | 18.1 | 19.1 | 20.2 | 21.2 | 22.3 |
| 5.....                      | 12.8                                     | 13.9 | 14.9 | 16.0 | 17.0 | 18.0 | 19.1 | 20.1 | 21.2 | 22.2 |
| 6.....                      | 12.8                                     | 13.8 | 14.9 | 15.9 | 16.9 | 18.0 | 19.0 | 20.1 | 21.1 | 22.2 |
| 7.....                      | 12.7                                     | 13.8 | 14.8 | 15.9 | 16.9 | 17.9 | 19.0 | 20.0 | 21.1 | 22.1 |
| 8.....                      | 12.7                                     | 13.7 | 14.8 | 15.8 | 16.8 | 17.9 | 18.9 | 20.0 | 21.0 | 22.1 |
| 9.....                      | 12.6                                     | 13.7 | 14.7 | 15.8 | 16.8 | 17.8 | 18.9 | 19.9 | 20.9 | 22.0 |
| 10.....                     | 12.6                                     | 13.6 | 14.6 | 15.7 | 16.7 | 17.8 | 18.8 | 19.8 | 20.9 | 21.9 |
| 11.....                     | 12.5                                     | 13.6 | 14.6 | 15.6 | 16.7 | 17.7 | 18.8 | 19.8 | 20.8 | 21.9 |
| 12.....                     | 12.5                                     | 13.5 | 14.5 | 15.6 | 16.6 | 17.6 | 18.7 | 19.7 | 20.8 | 21.8 |
| 13.....                     | 12.4                                     | 13.4 | 14.5 | 15.5 | 16.6 | 17.6 | 18.6 | 19.7 | 20.7 | 21.7 |
| 14.....                     | 12.4                                     | 13.4 | 14.4 | 15.5 | 16.5 | 17.5 | 18.6 | 19.6 | 20.6 | 21.7 |
| 15.....                     | 12.3                                     | 13.3 | 14.4 | 15.4 | 16.5 | 17.5 | 18.5 | 19.6 | 20.6 | 21.6 |
| 16.....                     | 12.2                                     | 13.3 | 14.3 | 15.4 | 16.4 | 17.4 | 18.5 | 19.5 | 20.5 | 21.6 |
| 17.....                     | 12.2                                     | 13.2 | 14.3 | 15.3 | 16.4 | 17.4 | 18.4 | 19.5 | 20.5 | 21.5 |
| 18.....                     | 12.1                                     | 13.2 | 14.2 | 15.2 | 16.3 | 17.3 | 18.4 | 19.4 | 20.4 | 21.5 |
| 19.....                     | 12.1                                     | 13.1 | 14.2 | 15.2 | 16.2 | 17.3 | 18.3 | 19.3 | 20.4 | 21.4 |
| 20.....                     | 12.0                                     | 13.1 | 14.1 | 15.1 | 16.2 | 17.2 | 18.2 | 19.3 | 20.3 | 21.3 |
| 21.....                     | 12.0                                     | 13.0 | 14.0 | 15.1 | 16.1 | 17.1 | 18.2 | 19.2 | 20.2 | 21.3 |
| 22.....                     | 11.9                                     | 13.0 | 14.0 | 15.0 | 16.1 | 17.1 | 18.1 | 19.1 | 20.2 | 21.2 |
| 23.....                     | 11.9                                     | 12.9 | 13.9 | 15.0 | 16.0 | 17.0 | 18.1 | 19.1 | 20.1 | 21.2 |
| 24.....                     | 11.8                                     | 12.9 | 13.9 | 14.9 | 16.0 | 17.0 | 18.0 | 19.0 | 20.1 | 21.1 |
| 25.....                     | 11.8                                     | 12.8 | 13.8 | 14.9 | 15.9 | 16.9 | 18.0 | 19.0 | 20.0 | 21.0 |
| 26.....                     | 11.7                                     | 12.8 | 13.8 | 14.8 | 15.8 | 16.9 | 17.9 | 18.9 | 19.9 | 21.0 |
| 27.....                     | 11.7                                     | 12.7 | 13.7 | 14.8 | 15.8 | 16.8 | 17.8 | 18.9 | 19.9 | 20.9 |
| 28.....                     | 11.6                                     | 12.6 | 13.7 | 14.7 | 15.7 | 16.7 | 17.8 | 18.8 | 19.8 | 20.8 |
| 29.....                     | 11.6                                     | 12.6 | 13.6 | 14.6 | 15.7 | 16.7 | 17.7 | 18.7 | 19.8 | 20.8 |
| 30.....                     | 11.5                                     | 12.5 | 13.6 | 14.6 | 15.6 | 16.6 | 17.7 | 18.7 | 19.7 | 20.7 |
| 31.....                     | 11.5                                     | 12.5 | 13.5 | 14.5 | 15.6 | 16.6 | 17.6 | 18.6 | 19.7 | 20.7 |
| 32.....                     | 11.4                                     | 12.4 | 13.4 | 14.5 | 15.5 | 16.5 | 17.6 | 18.6 | 19.6 | 20.6 |
| 33.....                     | 11.4                                     | 12.4 | 13.4 | 14.4 | 15.5 | 16.5 | 17.5 | 18.5 | 19.5 | 20.6 |
| 34.....                     | 11.3                                     | 12.3 | 13.3 | 14.4 | 15.4 | 16.4 | 17.4 | 18.4 | 19.5 | 20.5 |
| 35.....                     | 11.3                                     | 12.3 | 13.3 | 14.3 | 15.3 | 16.4 | 17.4 | 18.4 | 19.4 | 20.4 |
| 36.....                     | 11.2                                     | 12.2 | 13.2 | 14.3 | 15.3 | 16.3 | 17.3 | 18.3 | 19.4 | 20.4 |
| 37.....                     | 11.2                                     | 12.2 | 13.2 | 14.2 | 15.2 | 16.3 | 17.3 | 18.3 | 19.3 | 20.3 |
| 38.....                     | 11.1                                     | 12.1 | 13.1 | 14.2 | 15.2 | 16.2 | 17.2 | 18.2 | 19.2 | 20.3 |
| 39.....                     | 11.1                                     | 12.1 | 13.1 | 14.1 | 15.1 | 16.1 | 17.2 | 18.2 | 19.2 | 20.2 |
| 40.....                     | 11.0                                     | 12.0 | 13.0 | 14.0 | 15.1 | 16.1 | 17.1 | 18.1 | 19.1 | 20.1 |
| 41.....                     | 11.0                                     | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.1 | 19.1 | 20.1 |
| 42.....                     | 10.9                                     | 11.9 | 12.9 | 13.9 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 | 20.0 |
| 43.....                     | 10.8                                     | 11.9 | 12.9 | 13.9 | 14.9 | 15.9 | 16.9 | 17.9 | 18.9 | 20.0 |
| 44.....                     | 10.8                                     | 11.8 | 12.8 | 13.8 | 14.9 | 15.9 | 16.9 | 17.9 | 18.9 | 19.9 |
| 45.....                     | 10.7                                     | 11.8 | 12.8 | 13.8 | 14.8 | 15.8 | 16.8 | 17.8 | 18.8 | 19.9 |
| 46.....                     | 10.7                                     | 11.7 | 12.7 | 13.7 | 14.8 | 15.8 | 16.8 | 17.8 | 18.8 | 19.8 |
| 47.....                     | 10.6                                     | 11.7 | 12.7 | 13.7 | 14.7 | 15.7 | 16.7 | 17.7 | 18.7 | 19.7 |
| 48.....                     | 10.6                                     | 11.6 | 12.6 | 13.6 | 14.6 | 15.6 | 16.7 | 17.7 | 18.7 | 19.7 |
| 49.....                     | 10.6                                     | 11.6 | 12.6 | 13.6 | 14.6 | 15.6 | 16.6 | 17.6 | 18.6 | 19.6 |
| 50.....                     | 10.5                                     | 11.5 | 12.5 | 13.5 | 14.5 | 15.5 | 16.5 | 17.5 | 18.5 | 19.6 |
| 51.....                     | 10.5                                     | 11.5 | 12.5 | 13.5 | 14.5 | 15.5 | 16.5 | 17.5 | 18.5 | 19.5 |
| 52.....                     | 10.4                                     | 11.4 | 12.4 | 13.4 | 14.4 | 15.4 | 16.4 | 17.4 | 18.4 | 19.4 |
| 53.....                     | 10.4                                     | 11.4 | 12.4 | 13.4 | 14.4 | 15.4 | 16.4 | 17.4 | 18.4 | 19.4 |
| 54.....                     | 10.3                                     | 11.3 | 12.3 | 13.3 | 14.3 | 15.3 | 16.3 | 17.3 | 18.3 | 19.3 |
| 55.....                     | 10.3                                     | 11.3 | 12.3 | 13.3 | 14.3 | 15.3 | 16.3 | 17.3 | 18.3 | 19.3 |
| 56.....                     | 10.2                                     | 11.2 | 12.2 | 13.2 | 14.2 | 15.2 | 16.2 | 17.2 | 18.2 | 19.2 |
| 57.....                     | 10.1                                     | 11.1 | 12.1 | 13.1 | 14.1 | 15.1 | 16.2 | 17.2 | 18.2 | 19.2 |
| 58.....                     | 10.1                                     | 11.1 | 12.1 | 13.1 | 14.1 | 15.1 | 16.1 | 17.1 | 18.1 | 19.1 |
| 59.....                     | 10.0                                     | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 |
| 60.....                     | 10.0                                     | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 |
| 61.....                     | 9.9                                      | 10.9 | 11.9 | 12.9 | 13.9 | 14.9 | 15.9 | 16.9 | 17.9 | 18.9 |
| 62.....                     | 9.9                                      | 10.9 | 11.9 | 12.9 | 13.9 | 14.9 | 15.9 | 16.9 | 17.9 | 18.9 |
| 63.....                     | 9.9                                      | 10.8 | 11.8 | 12.8 | 13.8 | 14.8 | 15.8 | 16.8 | 17.8 | 18.8 |
| 64.....                     | 9.8                                      | 10.8 | 11.8 | 12.8 | 13.8 | 14.8 | 15.8 | 16.8 | 17.8 | 18.8 |

TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in ° F. | Observed degrees A. P. I.                |      |      |      |      |      |      |      |      |      |
|------------------------------|------------------------------------------|------|------|------|------|------|------|------|------|------|
|                              | 10                                       | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   |
|                              | Corresponding degrees A. P. I. at 60° F. |      |      |      |      |      |      |      |      |      |
| 65.....                      | 9.8                                      | 10.7 | 11.7 | 12.7 | 13.7 | 14.7 | 15.7 | 16.7 | 17.7 | 18.7 |
| 66.....                      | 9.7                                      | 10.7 | 11.7 | 12.7 | 13.7 | 14.7 | 15.7 | 16.7 | 17.7 | 18.7 |
| 67.....                      | 9.7                                      | 10.6 | 11.6 | 12.6 | 13.6 | 14.6 | 15.6 | 16.6 | 17.6 | 18.6 |
| 68.....                      | 9.6                                      | 10.6 | 11.6 | 12.6 | 13.6 | 14.6 | 15.6 | 16.6 | 17.6 | 18.5 |
| 69.....                      | 9.6                                      | 10.6 | 11.5 | 12.5 | 13.5 | 14.5 | 15.5 | 16.5 | 17.5 | 18.5 |
| 70.....                      | 9.5                                      | 10.5 | 11.5 | 12.5 | 13.5 | 14.5 | 15.5 | 16.4 | 17.4 | 18.4 |
| 71.....                      | 9.5                                      | 10.5 | 11.4 | 12.4 | 13.4 | 14.4 | 15.4 | 16.4 | 17.4 | 18.4 |
| 72.....                      | 9.4                                      | 10.4 | 11.4 | 12.4 | 13.4 | 14.4 | 15.4 | 16.3 | 17.3 | 18.3 |
| 73.....                      | 9.4                                      | 10.4 | 11.3 | 12.3 | 13.3 | 14.3 | 15.3 | 16.3 | 17.3 | 18.3 |
| 74.....                      | 9.3                                      | 10.3 | 11.3 | 12.3 | 13.3 | 14.3 | 15.2 | 16.2 | 17.2 | 18.2 |
| 75.....                      | 9.3                                      | 10.2 | 11.2 | 12.2 | 13.2 | 14.2 | 15.2 | 16.2 | 17.2 | 18.2 |
| 76.....                      | 9.2                                      | 10.2 | 11.2 | 12.2 | 13.2 | 14.2 | 15.1 | 16.1 | 17.1 | 18.1 |
| 77.....                      | 9.2                                      | 10.1 | 11.1 | 12.1 | 13.1 | 14.1 | 15.1 | 16.1 | 17.1 | 18.0 |
| 78.....                      | 9.1                                      | 10.1 | 11.1 | 12.1 | 13.1 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 |
| 79.....                      | 9.1                                      | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 17.9 |
| 80.....                      | 9.0                                      | 10.0 | 11.0 | 12.0 | 13.0 | 13.9 | 14.9 | 15.9 | 16.9 | 17.9 |
| 81.....                      | 9.0                                      | 9.9  | 10.9 | 11.9 | 12.9 | 13.9 | 14.9 | 15.8 | 16.8 | 17.8 |
| 82.....                      | 8.9                                      | 9.9  | 10.9 | 11.9 | 12.9 | 13.8 | 14.8 | 15.8 | 16.8 | 17.8 |
| 83.....                      | 8.9                                      | 9.8  | 10.8 | 11.8 | 12.8 | 13.8 | 14.8 | 15.7 | 16.7 | 17.7 |
| 84.....                      | 8.8                                      | 9.8  | 10.8 | 11.8 | 12.8 | 13.7 | 14.7 | 15.7 | 16.7 | 17.7 |
| 85.....                      | 8.8                                      | 9.8  | 10.7 | 11.7 | 12.7 | 13.7 | 14.7 | 15.6 | 16.6 | 17.6 |
| 86.....                      | 8.7                                      | 9.7  | 10.7 | 11.7 | 12.6 | 13.6 | 14.6 | 15.6 | 16.6 | 17.6 |
| 87.....                      | 8.7                                      | 9.7  | 10.6 | 11.6 | 12.6 | 13.6 | 14.6 | 15.5 | 16.5 | 17.5 |
| 88.....                      | 8.6                                      | 9.6  | 10.6 | 11.6 | 12.5 | 13.5 | 14.5 | 15.5 | 16.5 | 17.4 |
| 89.....                      | 8.6                                      | 9.6  | 10.5 | 11.5 | 12.5 | 13.5 | 14.5 | 15.4 | 16.4 | 17.4 |
| 90.....                      | 8.5                                      | 9.5  | 10.5 | 11.5 | 12.4 | 13.4 | 14.4 | 15.4 | 16.4 | 17.3 |
| 91.....                      | 8.5                                      | 9.5  | 10.4 | 11.4 | 12.4 | 13.4 | 14.4 | 15.3 | 16.3 | 17.3 |
| 92.....                      | 8.4                                      | 9.4  | 10.4 | 11.4 | 12.3 | 13.3 | 14.3 | 15.3 | 16.3 | 17.2 |
| 93.....                      | 8.4                                      | 9.4  | 10.3 | 11.3 | 12.3 | 13.3 | 14.3 | 15.2 | 16.2 | 17.2 |
| 94.....                      | 8.3                                      | 9.3  | 10.3 | 11.3 | 12.2 | 13.2 | 14.2 | 15.2 | 16.2 | 17.1 |
| 95.....                      | 8.3                                      | 9.3  | 10.2 | 11.2 | 12.2 | 13.2 | 14.2 | 15.1 | 16.1 | 17.1 |
| 96.....                      | 8.2                                      | 9.2  | 10.2 | 11.2 | 12.1 | 13.1 | 14.1 | 15.1 | 16.0 | 17.0 |
| 97.....                      | 8.2                                      | 9.2  | 10.1 | 11.1 | 12.1 | 13.1 | 14.0 | 15.0 | 16.0 | 17.0 |
| 98.....                      | 8.1                                      | 9.1  | 10.1 | 11.1 | 12.0 | 13.0 | 14.0 | 15.0 | 15.9 | 16.9 |
| 99.....                      | 8.1                                      | 9.1  | 10.0 | 11.0 | 12.0 | 13.0 | 13.9 | 14.9 | 15.9 | 16.8 |
| 100.....                     | 8.1                                      | 9.0  | 10.0 | 11.0 | 11.9 | 12.9 | 13.9 | 14.9 | 15.8 | 16.8 |
| 101.....                     | 8.0                                      | 9.0  | 9.9  | 10.9 | 11.9 | 12.9 | 13.8 | 14.8 | 15.8 | 16.7 |
| 102.....                     | 8.0                                      | 8.9  | 9.9  | 10.9 | 11.8 | 12.8 | 13.8 | 14.8 | 15.7 | 16.7 |
| 103.....                     | 7.9                                      | 8.9  | 9.9  | 10.8 | 11.8 | 12.8 | 13.7 | 14.7 | 15.7 | 16.6 |
| 104.....                     | 7.9                                      | 8.8  | 9.8  | 10.8 | 11.7 | 12.7 | 13.7 | 14.7 | 15.6 | 16.6 |
| 105.....                     | 7.8                                      | 8.8  | 9.8  | 10.7 | 11.7 | 12.7 | 13.6 | 14.6 | 15.6 | 16.5 |
| 106.....                     | 7.8                                      | 8.8  | 9.7  | 10.7 | 11.7 | 12.6 | 13.6 | 14.6 | 15.5 | 16.5 |
| 107.....                     | 7.7                                      | 8.7  | 9.7  | 10.6 | 11.6 | 12.6 | 13.5 | 14.5 | 15.5 | 16.4 |
| 108.....                     | 7.7                                      | 8.7  | 9.6  | 10.6 | 11.6 | 12.5 | 13.5 | 14.5 | 15.4 | 16.4 |
| 109.....                     | 7.6                                      | 8.6  | 9.6  | 10.5 | 11.5 | 12.5 | 13.4 | 14.4 | 15.4 | 16.3 |
| 110.....                     | 7.6                                      | 8.6  | 9.5  | 10.5 | 11.5 | 12.4 | 13.4 | 14.4 | 15.3 | 16.3 |
| 111.....                     | 7.6                                      | 8.5  | 9.5  | 10.4 | 11.4 | 12.4 | 13.3 | 14.3 | 15.3 | 16.2 |
| 112.....                     | 7.5                                      | 8.5  | 9.4  | 10.4 | 11.4 | 12.3 | 13.3 | 14.2 | 15.2 | 16.2 |
| 113.....                     | 7.5                                      | 8.4  | 9.4  | 10.3 | 11.3 | 12.3 | 13.2 | 14.2 | 15.1 | 16.1 |
| 114.....                     | 7.4                                      | 8.4  | 9.3  | 10.3 | 11.3 | 12.2 | 13.2 | 14.1 | 15.1 | 16.1 |
| 115.....                     | 7.4                                      | 8.3  | 9.3  | 10.2 | 11.2 | 12.2 | 13.1 | 14.1 | 15.0 | 16.0 |
| 116.....                     | 7.3                                      | 8.3  | 9.2  | 10.2 | 11.2 | 12.1 | 13.1 | 14.0 | 15.0 | 16.0 |
| 117.....                     | 7.3                                      | 8.2  | 9.2  | 10.1 | 11.1 | 12.1 | 13.0 | 14.0 | 14.9 | 15.9 |
| 118.....                     | 7.2                                      | 8.2  | 9.1  | 10.1 | 11.1 | 12.0 | 13.0 | 13.9 | 14.9 | 15.9 |
| 119.....                     | 7.2                                      | 8.1  | 9.1  | 10.1 | 11.0 | 12.0 | 12.9 | 13.9 | 14.8 | 15.8 |
| 120.....                     | 7.1                                      | 8.1  | 9.0  | 10.0 | 11.0 | 11.9 | 12.9 | 13.8 | 14.8 | 15.8 |
| 121.....                     | 7.1                                      | 8.0  | 9.0  | 10.0 | 10.9 | 11.9 | 12.8 | 13.8 | 14.7 | 15.7 |
| 122.....                     | 7.0                                      | 8.0  | 8.9  | 9.9  | 10.9 | 11.8 | 12.8 | 13.7 | 14.7 | 15.6 |
| 123.....                     | 7.0                                      | 7.9  | 8.9  | 9.9  | 10.8 | 11.8 | 12.7 | 13.7 | 14.6 | 15.6 |
| 124.....                     | 6.9                                      | 7.9  | 8.9  | 9.8  | 10.8 | 11.7 | 12.7 | 13.6 | 14.6 | 15.5 |
| 125.....                     | 6.9                                      | 7.8  | 8.8  | 9.8  | 10.7 | 11.7 | 12.6 | 13.6 | 14.5 | 15.5 |
| 126.....                     | 6.9                                      | 7.8  | 8.8  | 9.7  | 10.7 | 11.6 | 12.6 | 13.5 | 14.5 | 15.4 |
| 127.....                     | 6.8                                      | 7.8  | 8.7  | 9.7  | 10.6 | 11.6 | 12.5 | 13.5 | 14.4 | 15.4 |
| 128.....                     | 6.8                                      | 7.7  | 8.7  | 9.6  | 10.6 | 11.5 | 12.5 | 13.4 | 14.4 | 15.3 |
| 129.....                     | 6.7                                      | 7.7  | 8.6  | 9.6  | 10.5 | 11.5 | 12.4 | 13.4 | 14.3 | 15.3 |



TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in °F. | Observed degrees A. P. I.                |     |     |     |      |      |      |      |      |      |
|-----------------------------|------------------------------------------|-----|-----|-----|------|------|------|------|------|------|
|                             | 10                                       | 11  | 12  | 13  | 14   | 15   | 16   | 17   | 18   | 19   |
|                             | Corresponding degrees A. P. I. at 60° F. |     |     |     |      |      |      |      |      |      |
| 130.....                    | 6.7                                      | 7.6 | 8.6 | 9.5 | 10.5 | 11.4 | 12.4 | 13.3 | 14.3 | 15.2 |
| 131.....                    | 6.6                                      | 7.6 | 8.5 | 9.5 | 10.4 | 11.4 | 12.3 | 13.3 | 14.2 | 15.2 |
| 132.....                    | 6.6                                      | 7.5 | 8.5 | 9.4 | 10.4 | 11.3 | 12.3 | 13.2 | 14.2 | 15.1 |
| 133.....                    | 6.5                                      | 7.5 | 8.4 | 9.4 | 10.3 | 11.3 | 12.2 | 13.2 | 14.1 | 15.1 |
| 134.....                    | 6.5                                      | 7.4 | 8.4 | 9.3 | 10.3 | 11.2 | 12.2 | 13.1 | 14.1 | 15.0 |
| 135.....                    | 6.4                                      | 7.4 | 8.3 | 9.3 | 10.2 | 11.2 | 12.1 | 13.1 | 14.0 | 15.0 |
| 136.....                    | 6.4                                      | 7.4 | 8.3 | 9.3 | 10.2 | 11.1 | 12.1 | 13.0 | 14.0 | 14.9 |
| 137.....                    | 6.4                                      | 7.3 | 8.2 | 9.2 | 10.1 | 11.1 | 12.0 | 13.0 | 13.9 | 14.9 |
| 138.....                    | 6.3                                      | 7.3 | 8.2 | 9.2 | 10.1 | 11.0 | 12.0 | 12.9 | 13.9 | 14.8 |
| 139.....                    | 6.3                                      | 7.2 | 8.2 | 9.1 | 10.1 | 11.0 | 11.9 | 12.9 | 13.8 | 14.8 |
| 140.....                    | 6.2                                      | 7.2 | 8.1 | 9.1 | 10.0 | 10.9 | 11.9 | 12.8 | 13.8 | 14.7 |
| 141.....                    | 6.2                                      | 7.1 | 8.1 | 9.0 | 10.0 | 10.9 | 11.8 | 12.8 | 13.7 | 14.7 |
| 142.....                    | 6.1                                      | 7.1 | 8.0 | 9.0 | 9.9  | 10.8 | 11.8 | 12.7 | 13.7 | 14.6 |
| 143.....                    | 6.1                                      | 7.0 | 8.0 | 8.9 | 9.9  | 10.8 | 11.8 | 12.7 | 13.6 | 14.6 |
| 144.....                    | 6.0                                      | 7.0 | 7.9 | 8.9 | 9.8  | 10.7 | 11.7 | 12.6 | 13.6 | 14.5 |
| 145.....                    | 6.0                                      | 6.9 | 7.9 | 8.8 | 9.8  | 10.7 | 11.7 | 12.6 | 13.5 | 14.5 |
| 146.....                    | 6.0                                      | 6.9 | 7.8 | 8.8 | 9.7  | 10.6 | 11.6 | 12.5 | 13.5 | 14.4 |
| 147.....                    | 5.9                                      | 6.9 | 7.8 | 8.7 | 9.7  | 10.6 | 11.6 | 12.5 | 13.4 | 14.4 |
| 148.....                    | 5.9                                      | 6.8 | 7.7 | 8.7 | 9.6  | 10.6 | 11.5 | 12.4 | 13.4 | 14.3 |
| 149.....                    | 5.8                                      | 6.8 | 7.7 | 8.7 | 9.6  | 10.5 | 11.5 | 12.4 | 13.3 | 14.3 |
| 150.....                    | 5.8                                      | 6.7 | 7.7 | 8.6 | 9.5  | 10.5 | 11.4 | 12.3 | 13.3 | 14.2 |
| 151.....                    | 5.7                                      | 6.7 | 7.6 | 8.6 | 9.5  | 10.4 | 11.4 | 12.3 | 13.2 | 14.2 |
| 152.....                    | 5.7                                      | 6.6 | 7.6 | 8.5 | 9.4  | 10.4 | 11.3 | 12.2 | 13.2 | 14.1 |
| 153.....                    | 5.6                                      | 6.6 | 7.5 | 8.5 | 9.4  | 10.3 | 11.3 | 12.2 | 13.1 | 14.1 |
| 154.....                    | 5.6                                      | 6.5 | 7.5 | 8.4 | 9.4  | 10.3 | 11.2 | 12.1 | 13.1 | 14.0 |
| 155.....                    | 5.6                                      | 6.5 | 7.4 | 8.4 | 9.3  | 10.2 | 11.2 | 12.1 | 13.0 | 14.0 |
| 156.....                    | 5.5                                      | 6.4 | 7.4 | 8.3 | 9.3  | 10.2 | 11.1 | 12.0 | 13.0 | 13.9 |
| 157.....                    | 5.5                                      | 6.4 | 7.3 | 8.3 | 9.2  | 10.1 | 11.1 | 12.0 | 12.9 | 13.8 |
| 158.....                    | 5.4                                      | 6.4 | 7.3 | 8.2 | 9.2  | 10.1 | 11.0 | 11.9 | 12.9 | 13.8 |
| 159.....                    | 5.4                                      | 6.3 | 7.3 | 8.2 | 9.1  | 10.0 | 11.0 | 11.9 | 12.8 | 13.7 |
| 160.....                    | 5.3                                      | 6.3 | 7.2 | 8.1 | 9.1  | 10.0 | 10.9 | 11.8 | 12.8 | 13.7 |
| 161.....                    | 5.3                                      | 6.2 | 7.2 | 8.1 | 9.0  | 10.0 | 10.9 | 11.8 | 12.7 | 13.6 |
| 162.....                    | 5.3                                      | 6.2 | 7.1 | 8.1 | 9.0  | 9.9  | 10.8 | 11.7 | 12.7 | 13.6 |
| 163.....                    | 5.2                                      | 6.2 | 7.1 | 8.0 | 8.9  | 9.9  | 10.8 | 11.7 | 12.6 | 13.5 |
| 164.....                    | 5.2                                      | 6.1 | 7.0 | 8.0 | 8.9  | 9.8  | 10.7 | 11.7 | 12.6 | 13.5 |
| 165.....                    | 5.1                                      | 6.1 | 7.0 | 7.9 | 8.8  | 9.8  | 10.7 | 11.6 | 12.5 | 13.4 |
| 166.....                    | 5.1                                      | 6.0 | 6.9 | 7.9 | 8.8  | 9.7  | 10.6 | 11.6 | 12.5 | 13.4 |
| 167.....                    | 5.0                                      | 6.0 | 6.9 | 7.8 | 8.7  | 9.7  | 10.6 | 11.5 | 12.4 | 13.3 |
| 168.....                    | 5.0                                      | 5.9 | 6.9 | 7.8 | 8.7  | 9.6  | 10.6 | 11.5 | 12.4 | 13.3 |
| 169.....                    | 5.0                                      | 5.9 | 6.8 | 7.8 | 8.7  | 9.6  | 10.5 | 11.4 | 12.3 | 13.3 |
| 170.....                    | 4.9                                      | 5.9 | 6.8 | 7.7 | 8.6  | 9.5  | 10.5 | 11.4 | 12.3 | 13.2 |
| 171.....                    | 4.9                                      | 5.8 | 6.7 | 7.7 | 8.6  | 9.5  | 10.4 | 11.3 | 12.2 | 13.2 |
| 172.....                    | 4.9                                      | 5.8 | 6.7 | 7.6 | 8.5  | 9.5  | 10.4 | 11.3 | 12.2 | 13.1 |
| 173.....                    | 4.8                                      | 5.7 | 6.7 | 7.6 | 8.5  | 9.4  | 10.3 | 11.2 | 12.1 | 13.1 |
| 174.....                    | 4.8                                      | 5.7 | 6.6 | 7.6 | 8.5  | 9.4  | 10.3 | 11.2 | 12.1 | 13.0 |
| 175.....                    | 4.7                                      | 5.6 | 6.6 | 7.5 | 8.4  | 9.3  | 10.2 | 11.2 | 12.1 | 13.0 |
| 176.....                    | 4.7                                      | 5.6 | 6.5 | 7.5 | 8.4  | 9.3  | 10.2 | 11.1 | 12.0 | 12.9 |
| 177.....                    | 4.7                                      | 5.6 | 6.5 | 7.4 | 8.3  | 9.2  | 10.1 | 11.1 | 12.0 | 12.9 |
| 178.....                    | 4.6                                      | 5.5 | 6.4 | 7.4 | 8.3  | 9.2  | 10.1 | 11.0 | 11.9 | 12.8 |
| 179.....                    | 4.6                                      | 5.5 | 6.4 | 7.3 | 8.2  | 9.2  | 10.1 | 11.0 | 11.9 | 12.8 |
| 180.....                    | 4.5                                      | 5.4 | 6.4 | 7.3 | 8.2  | 9.1  | 10.0 | 10.9 | 11.8 | 12.7 |
| 181.....                    | 4.5                                      | 5.4 | 6.3 | 7.3 | 8.2  | 9.1  | 10.0 | 10.9 | 11.8 | 12.7 |
| 182.....                    | 4.4                                      | 5.4 | 6.3 | 7.2 | 8.1  | 9.0  | 9.9  | 10.8 | 11.7 | 12.6 |
| 183.....                    | 4.4                                      | 5.3 | 6.2 | 7.2 | 8.1  | 9.0  | 9.9  | 10.8 | 11.7 | 12.6 |
| 184.....                    | 4.3                                      | 5.3 | 6.2 | 7.1 | 8.0  | 8.9  | 9.8  | 10.7 | 11.6 | 12.5 |
| 185.....                    | 4.3                                      | 5.2 | 6.1 | 7.1 | 8.0  | 8.9  | 9.8  | 10.7 | 11.6 | 12.5 |
| 186.....                    | 4.3                                      | 5.2 | 6.1 | 7.0 | 7.9  | 8.8  | 9.8  | 10.6 | 11.6 | 12.5 |
| 187.....                    | 4.2                                      | 5.1 | 6.1 | 7.0 | 7.9  | 8.8  | 9.7  | 10.6 | 11.5 | 12.4 |
| 188.....                    | 4.2                                      | 5.1 | 6.0 | 6.9 | 7.8  | 8.7  | 9.7  | 10.6 | 11.5 | 12.4 |
| 189.....                    | 4.1                                      | 5.0 | 6.0 | 6.9 | 7.8  | 8.7  | 9.6  | 10.5 | 11.4 | 12.3 |
| 190.....                    | 4.1                                      | 5.0 | 5.9 | 6.9 | 7.8  | 8.7  | 9.6  | 10.5 | 11.4 | 12.3 |
| 191.....                    | 4.1                                      | 5.0 | 5.9 | 6.8 | 7.7  | 8.6  | 9.5  | 10.4 | 11.3 | 12.2 |
| 192.....                    | 4.0                                      | 4.9 | 5.8 | 6.8 | 7.7  | 8.6  | 9.5  | 10.4 | 11.3 | 12.2 |
| 193.....                    | 4.0                                      | 4.9 | 5.8 | 6.7 | 7.6  | 8.5  | 9.4  | 10.3 | 11.2 | 12.1 |
| 194.....                    | 3.9                                      | 4.9 | 5.8 | 6.7 | 7.6  | 8.5  | 9.4  | 10.3 | 11.2 | 12.1 |
| 195.....                    | 3.9                                      | 4.8 | 5.7 | 6.6 | 7.5  | 8.4  | 9.3  | 10.2 | 11.1 | 12.0 |

TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in °F. | Observed degrees A. P. I.                |      |      |      |      |      |      |      |      |      |
|-----------------------------|------------------------------------------|------|------|------|------|------|------|------|------|------|
|                             | 20                                       | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29   |
|                             | Corresponding degrees A. P. I. at 60° F. |      |      |      |      |      |      |      |      |      |
| 0.....                      | 23.6                                     | 24.6 | 25.7 | 26.8 | 27.8 | 28.9 | 30.0 | 31.0 | 32.1 | 33.2 |
| 1.....                      | 23.5                                     | 24.6 | 25.6 | 26.7 | 27.8 | 28.8 | 29.9 | 31.0 | 32.0 | 33.1 |
| 2.....                      | 23.5                                     | 24.5 | 25.6 | 26.6 | 27.7 | 28.7 | 29.8 | 30.9 | 31.9 | 33.0 |
| 3.....                      | 23.4                                     | 24.4 | 25.5 | 26.5 | 27.6 | 28.7 | 29.7 | 30.8 | 31.8 | 32.9 |
| 4.....                      | 23.3                                     | 24.4 | 25.4 | 26.5 | 27.5 | 28.6 | 29.6 | 30.7 | 31.8 | 32.8 |
| 5.....                      | 23.3                                     | 24.3 | 25.4 | 26.4 | 27.5 | 28.5 | 29.6 | 30.6 | 31.7 | 32.8 |
| 6.....                      | 23.2                                     | 24.2 | 25.3 | 26.3 | 27.4 | 28.5 | 29.5 | 30.6 | 31.6 | 32.7 |
| 7.....                      | 23.1                                     | 24.2 | 25.2 | 26.3 | 27.3 | 28.4 | 29.4 | 30.5 | 31.6 | 32.6 |
| 8.....                      | 23.1                                     | 24.1 | 25.2 | 26.2 | 27.3 | 28.3 | 29.4 | 30.4 | 31.5 | 32.6 |
| 9.....                      | 23.0                                     | 24.1 | 25.1 | 26.2 | 27.2 | 28.3 | 29.3 | 30.4 | 31.4 | 32.5 |
| 10.....                     | 23.0                                     | 24.0 | 25.0 | 26.1 | 27.1 | 28.2 | 29.2 | 30.3 | 31.3 | 32.4 |
| 11.....                     | 22.9                                     | 23.9 | 25.0 | 26.0 | 27.1 | 28.1 | 29.2 | 30.2 | 31.3 | 32.3 |
| 12.....                     | 22.8                                     | 23.9 | 24.9 | 26.0 | 27.0 | 28.1 | 29.1 | 30.2 | 31.2 | 32.3 |
| 13.....                     | 22.8                                     | 23.8 | 24.9 | 25.9 | 26.9 | 28.0 | 29.0 | 30.1 | 31.1 | 32.2 |
| 14.....                     | 22.7                                     | 23.7 | 24.8 | 25.8 | 26.9 | 27.9 | 29.0 | 30.0 | 31.1 | 32.1 |
| 15.....                     | 22.7                                     | 23.7 | 24.7 | 25.8 | 26.8 | 27.9 | 28.9 | 30.0 | 31.0 | 32.0 |
| 16.....                     | 22.6                                     | 23.6 | 24.7 | 25.7 | 26.7 | 27.8 | 28.8 | 29.9 | 30.9 | 32.0 |
| 17.....                     | 22.6                                     | 23.6 | 24.6 | 25.7 | 26.7 | 27.7 | 28.8 | 29.8 | 30.9 | 31.9 |
| 18.....                     | 22.5                                     | 23.5 | 24.6 | 25.6 | 26.6 | 27.7 | 28.7 | 29.8 | 30.8 | 31.8 |
| 19.....                     | 22.4                                     | 23.4 | 24.5 | 25.5 | 26.5 | 27.6 | 28.6 | 29.7 | 30.7 | 31.8 |
| 20.....                     | 22.4                                     | 23.4 | 24.4 | 25.5 | 26.5 | 27.5 | 28.6 | 29.6 | 30.7 | 31.7 |
| 21.....                     | 22.3                                     | 23.3 | 24.4 | 25.4 | 26.4 | 27.5 | 28.5 | 29.5 | 30.6 | 31.6 |
| 22.....                     | 22.2                                     | 23.3 | 24.3 | 25.3 | 26.4 | 27.4 | 28.4 | 29.5 | 30.5 | 31.6 |
| 23.....                     | 22.2                                     | 23.2 | 24.3 | 25.3 | 26.3 | 27.3 | 28.4 | 29.4 | 30.4 | 31.5 |
| 24.....                     | 22.1                                     | 23.1 | 24.2 | 25.2 | 26.2 | 27.3 | 28.3 | 29.3 | 30.4 | 31.4 |
| 25.....                     | 22.1                                     | 23.1 | 24.1 | 25.2 | 26.2 | 27.2 | 28.3 | 29.3 | 30.3 | 31.4 |
| 26.....                     | 22.0                                     | 23.0 | 24.1 | 25.1 | 26.1 | 27.1 | 28.2 | 29.2 | 30.2 | 31.3 |
| 27.....                     | 21.9                                     | 23.0 | 24.0 | 25.0 | 26.0 | 27.1 | 28.1 | 29.1 | 30.2 | 31.2 |
| 28.....                     | 21.9                                     | 22.9 | 23.9 | 24.9 | 26.0 | 27.0 | 28.0 | 29.1 | 30.1 | 31.1 |
| 29.....                     | 21.8                                     | 22.8 | 23.8 | 24.9 | 25.9 | 26.9 | 28.0 | 29.0 | 30.0 | 31.1 |
| 30.....                     | 21.7                                     | 22.8 | 23.8 | 24.8 | 25.8 | 26.9 | 27.9 | 28.9 | 30.0 | 31.0 |
| 31.....                     | 21.7                                     | 22.7 | 23.7 | 24.7 | 25.8 | 26.8 | 27.8 | 28.9 | 29.9 | 30.9 |
| 32.....                     | 21.6                                     | 22.7 | 23.7 | 24.7 | 25.7 | 26.8 | 27.8 | 28.8 | 29.8 | 30.9 |
| 33.....                     | 21.6                                     | 22.6 | 23.6 | 24.6 | 25.7 | 26.7 | 27.7 | 28.7 | 29.8 | 30.8 |
| 34.....                     | 21.5                                     | 22.5 | 23.6 | 24.6 | 25.6 | 26.6 | 27.7 | 28.7 | 29.7 | 30.7 |
| 35.....                     | 21.4                                     | 22.5 | 23.5 | 24.5 | 25.5 | 26.6 | 27.6 | 28.6 | 29.6 | 30.7 |
| 36.....                     | 21.4                                     | 22.4 | 23.4 | 24.4 | 25.5 | 26.5 | 27.5 | 28.5 | 29.6 | 30.6 |
| 37.....                     | 21.3                                     | 22.3 | 23.4 | 24.4 | 25.4 | 26.4 | 27.4 | 28.5 | 29.5 | 30.5 |
| 38.....                     | 21.3                                     | 22.3 | 23.3 | 24.3 | 25.3 | 26.3 | 27.4 | 28.4 | 29.4 | 30.4 |
| 39.....                     | 21.2                                     | 22.2 | 23.3 | 24.3 | 25.3 | 26.3 | 27.3 | 28.3 | 29.4 | 30.4 |
| 40.....                     | 21.2                                     | 22.2 | 23.2 | 24.2 | 25.2 | 26.2 | 27.3 | 28.3 | 29.3 | 30.3 |
| 41.....                     | 21.1                                     | 22.1 | 23.1 | 24.2 | 25.2 | 26.2 | 27.2 | 28.2 | 29.2 | 30.3 |
| 42.....                     | 21.0                                     | 22.1 | 23.1 | 24.1 | 25.1 | 26.1 | 27.1 | 28.2 | 29.2 | 30.2 |
| 43.....                     | 21.0                                     | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 | 27.1 | 28.1 | 29.1 | 30.1 |
| 44.....                     | 20.9                                     | 21.9 | 23.0 | 24.0 | 25.0 | 26.0 | 27.0 | 28.0 | 29.0 | 30.0 |
| 45.....                     | 20.9                                     | 21.9 | 22.9 | 23.9 | 24.9 | 25.9 | 26.9 | 28.0 | 29.0 | 30.0 |
| 46.....                     | 20.8                                     | 21.8 | 22.8 | 23.8 | 24.8 | 25.9 | 26.9 | 27.9 | 28.9 | 29.9 |
| 47.....                     | 20.7                                     | 21.7 | 22.8 | 23.8 | 24.8 | 25.8 | 26.8 | 27.8 | 28.8 | 29.8 |
| 48.....                     | 20.7                                     | 21.7 | 22.7 | 23.7 | 24.7 | 25.7 | 26.8 | 27.8 | 28.8 | 29.8 |
| 49.....                     | 20.6                                     | 21.6 | 22.7 | 23.7 | 24.7 | 25.7 | 26.7 | 27.7 | 28.7 | 29.7 |
| 50.....                     | 20.6                                     | 21.6 | 22.6 | 23.6 | 24.6 | 25.6 | 26.6 | 27.6 | 28.7 | 29.7 |
| 51.....                     | 20.5                                     | 21.5 | 22.5 | 23.5 | 24.5 | 25.5 | 26.6 | 27.6 | 28.6 | 29.6 |
| 52.....                     | 20.5                                     | 21.5 | 22.5 | 23.5 | 24.5 | 25.5 | 26.5 | 27.5 | 28.5 | 29.5 |
| 53.....                     | 20.4                                     | 21.4 | 22.4 | 23.4 | 24.4 | 25.4 | 26.4 | 27.4 | 28.5 | 29.5 |
| 54.....                     | 20.3                                     | 21.3 | 22.3 | 23.3 | 24.4 | 25.4 | 26.4 | 27.4 | 28.4 | 29.4 |
| 55.....                     | 20.3                                     | 21.3 | 22.3 | 23.3 | 24.3 | 25.3 | 26.3 | 27.3 | 28.3 | 29.3 |
| 56.....                     | 20.2                                     | 21.2 | 22.2 | 23.2 | 24.2 | 25.2 | 26.2 | 27.3 | 28.3 | 29.3 |
| 57.....                     | 20.2                                     | 21.2 | 22.2 | 23.2 | 24.2 | 25.2 | 26.2 | 27.2 | 28.2 | 29.2 |
| 58.....                     | 20.1                                     | 21.1 | 22.1 | 23.1 | 24.1 | 25.1 | 26.1 | 27.1 | 28.1 | 29.1 |
| 59.....                     | 20.1                                     | 21.1 | 22.1 | 23.1 | 24.1 | 25.1 | 26.1 | 27.1 | 28.1 | 29.1 |
| 60.....                     | 20.0                                     | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 | 27.0 | 28.0 | 29.0 |
| 61.....                     | 19.9                                     | 20.9 | 21.9 | 22.9 | 23.9 | 24.9 | 25.9 | 26.9 | 27.9 | 28.9 |
| 62.....                     | 19.9                                     | 20.9 | 21.9 | 22.9 | 23.9 | 24.9 | 25.9 | 26.9 | 27.9 | 28.9 |
| 63.....                     | 19.8                                     | 20.8 | 21.8 | 22.8 | 23.8 | 24.8 | 25.8 | 26.8 | 27.8 | 28.8 |
| 64.....                     | 19.8                                     | 20.8 | 21.8 | 22.8 | 23.8 | 24.8 | 25.8 | 26.8 | 27.8 | 28.8 |

TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in °F. | Observed degrees A. P. I.                |      |      |      |      |      |      |      |      |      |
|-----------------------------|------------------------------------------|------|------|------|------|------|------|------|------|------|
|                             | 20                                       | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29   |
|                             | Corresponding degrees A. P. I. at 60° F. |      |      |      |      |      |      |      |      |      |
| 65.....                     | 19.7                                     | 20.7 | 21.7 | 22.7 | 23.7 | 24.7 | 25.7 | 26.7 | 27.7 | 28.7 |
| 66.....                     | 19.7                                     | 20.7 | 21.7 | 22.6 | 23.6 | 24.6 | 25.6 | 26.6 | 27.6 | 28.6 |
| 67.....                     | 19.6                                     | 20.6 | 21.6 | 22.6 | 23.6 | 24.6 | 25.6 | 26.6 | 27.6 | 28.5 |
| 68.....                     | 19.5                                     | 20.5 | 21.5 | 22.5 | 23.5 | 24.5 | 25.5 | 26.5 | 27.5 | 28.5 |
| 69.....                     | 19.5                                     | 20.5 | 21.5 | 22.4 | 23.4 | 24.4 | 25.4 | 26.4 | 27.4 | 28.4 |
| 70.....                     | 19.4                                     | 20.4 | 21.4 | 22.4 | 23.4 | 24.4 | 25.4 | 26.4 | 27.4 | 28.3 |
| 71.....                     | 19.4                                     | 20.4 | 21.4 | 22.3 | 23.3 | 24.3 | 25.3 | 26.3 | 27.3 | 28.3 |
| 72.....                     | 19.3                                     | 20.3 | 21.3 | 22.3 | 23.3 | 24.3 | 25.2 | 26.2 | 27.2 | 28.2 |
| 73.....                     | 19.2                                     | 20.2 | 21.2 | 22.2 | 23.2 | 24.2 | 25.2 | 26.2 | 27.2 | 28.2 |
| 74.....                     | 19.2                                     | 20.2 | 21.2 | 22.2 | 23.1 | 24.1 | 25.1 | 26.1 | 27.1 | 28.1 |
| 75.....                     | 19.1                                     | 20.1 | 21.1 | 22.1 | 23.1 | 24.1 | 25.1 | 26.0 | 27.0 | 28.0 |
| 76.....                     | 19.1                                     | 20.1 | 21.1 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 | 27.0 | 28.0 |
| 77.....                     | 19.0                                     | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 25.9 | 26.9 | 27.9 |
| 78.....                     | 19.0                                     | 20.0 | 20.9 | 21.9 | 22.9 | 23.9 | 24.9 | 25.9 | 26.8 | 27.8 |
| 79.....                     | 18.9                                     | 19.9 | 20.9 | 21.8 | 22.8 | 23.8 | 24.8 | 25.8 | 26.8 | 27.8 |
| 80.....                     | 18.9                                     | 19.9 | 20.8 | 21.8 | 22.8 | 23.8 | 24.8 | 25.7 | 26.7 | 27.7 |
| 81.....                     | 18.8                                     | 19.8 | 20.8 | 21.7 | 22.7 | 23.7 | 24.7 | 25.7 | 26.7 | 27.6 |
| 82.....                     | 18.7                                     | 19.7 | 20.7 | 21.7 | 22.7 | 23.6 | 24.6 | 25.6 | 26.6 | 27.6 |
| 83.....                     | 18.7                                     | 19.7 | 20.6 | 21.6 | 22.6 | 23.6 | 24.6 | 25.5 | 26.5 | 27.5 |
| 84.....                     | 18.6                                     | 19.6 | 20.6 | 21.6 | 22.6 | 23.5 | 24.5 | 25.5 | 26.5 | 27.4 |
| 85.....                     | 18.6                                     | 19.5 | 20.5 | 21.5 | 22.5 | 23.5 | 24.5 | 25.4 | 26.4 | 27.4 |
| 86.....                     | 18.5                                     | 19.5 | 20.5 | 21.4 | 22.4 | 23.4 | 24.4 | 25.4 | 26.3 | 27.3 |
| 87.....                     | 18.4                                     | 19.4 | 20.4 | 21.4 | 22.4 | 23.3 | 24.3 | 25.3 | 26.3 | 27.3 |
| 88.....                     | 18.4                                     | 19.4 | 20.4 | 21.3 | 22.3 | 23.3 | 24.3 | 25.2 | 26.2 | 27.2 |
| 89.....                     | 18.3                                     | 19.3 | 20.3 | 21.3 | 22.2 | 23.2 | 24.2 | 25.2 | 26.2 | 27.1 |
| 90.....                     | 18.3                                     | 19.3 | 20.3 | 21.2 | 22.2 | 23.2 | 24.2 | 25.1 | 26.1 | 27.1 |
| 91.....                     | 18.2                                     | 19.2 | 20.2 | 21.2 | 22.1 | 23.1 | 24.1 | 25.1 | 26.0 | 27.0 |
| 92.....                     | 18.2                                     | 19.2 | 20.1 | 21.1 | 22.1 | 23.0 | 24.0 | 25.0 | 26.0 | 26.9 |
| 93.....                     | 18.1                                     | 19.1 | 20.1 | 21.0 | 22.0 | 23.0 | 24.0 | 24.9 | 25.9 | 26.9 |
| 94.....                     | 18.1                                     | 19.0 | 20.0 | 21.0 | 22.0 | 22.9 | 23.9 | 24.9 | 25.9 | 26.8 |
| 95.....                     | 18.0                                     | 19.0 | 20.0 | 20.9 | 21.9 | 22.9 | 23.8 | 24.8 | 25.8 | 26.8 |
| 96.....                     | 18.0                                     | 18.9 | 19.9 | 20.9 | 21.9 | 22.8 | 23.8 | 24.8 | 25.8 | 26.7 |
| 97.....                     | 17.9                                     | 18.9 | 19.9 | 20.8 | 21.8 | 22.8 | 23.7 | 24.7 | 25.7 | 26.6 |
| 98.....                     | 17.9                                     | 18.8 | 19.8 | 20.8 | 21.7 | 22.7 | 23.7 | 24.6 | 25.6 | 26.6 |
| 99.....                     | 17.8                                     | 18.8 | 19.8 | 20.7 | 21.7 | 22.7 | 23.6 | 24.6 | 25.6 | 26.5 |
| 100.....                    | 17.8                                     | 18.7 | 19.7 | 20.7 | 21.6 | 22.6 | 23.6 | 24.5 | 25.5 | 26.5 |
| 101.....                    | 17.7                                     | 18.7 | 19.6 | 20.6 | 21.6 | 22.5 | 23.5 | 24.5 | 25.4 | 26.4 |
| 102.....                    | 17.6                                     | 18.6 | 19.6 | 20.5 | 21.5 | 22.5 | 23.4 | 24.4 | 25.4 | 26.3 |
| 103.....                    | 17.6                                     | 18.6 | 19.5 | 20.5 | 21.5 | 22.4 | 23.4 | 24.4 | 25.3 | 26.3 |
| 104.....                    | 17.5                                     | 18.5 | 19.5 | 20.4 | 21.4 | 22.3 | 23.3 | 24.3 | 25.2 | 26.2 |
| 105.....                    | 17.5                                     | 18.5 | 19.4 | 20.4 | 21.3 | 22.3 | 23.3 | 24.2 | 25.2 | 26.1 |
| 106.....                    | 17.4                                     | 18.4 | 19.4 | 20.3 | 21.3 | 22.2 | 23.2 | 24.2 | 25.1 | 26.1 |
| 107.....                    | 17.4                                     | 18.4 | 19.3 | 20.3 | 21.2 | 22.2 | 23.2 | 24.1 | 25.1 | 26.0 |
| 108.....                    | 17.3                                     | 18.3 | 19.3 | 20.2 | 21.2 | 22.1 | 23.1 | 24.0 | 25.0 | 25.9 |
| 109.....                    | 17.3                                     | 18.3 | 19.2 | 20.2 | 21.1 | 22.1 | 23.0 | 24.0 | 24.9 | 25.9 |
| 110.....                    | 17.2                                     | 18.2 | 19.2 | 20.1 | 21.1 | 22.0 | 23.0 | 23.9 | 24.9 | 25.8 |
| 111.....                    | 17.2                                     | 18.1 | 19.1 | 20.1 | 21.0 | 22.0 | 22.9 | 23.9 | 24.8 | 25.8 |
| 112.....                    | 17.1                                     | 18.1 | 19.0 | 20.0 | 20.9 | 21.9 | 22.9 | 23.8 | 24.8 | 25.7 |
| 113.....                    | 17.1                                     | 18.0 | 19.0 | 19.9 | 20.9 | 21.8 | 22.8 | 23.7 | 24.7 | 25.6 |
| 114.....                    | 17.0                                     | 18.0 | 18.9 | 19.9 | 20.8 | 21.8 | 22.8 | 23.7 | 24.7 | 25.6 |
| 115.....                    | 17.0                                     | 17.9 | 18.9 | 19.8 | 20.8 | 21.7 | 22.7 | 23.6 | 24.6 | 25.5 |
| 116.....                    | 16.9                                     | 17.9 | 18.8 | 19.8 | 20.7 | 21.7 | 22.6 | 23.6 | 24.5 | 25.5 |
| 117.....                    | 16.9                                     | 17.8 | 18.8 | 19.7 | 20.7 | 21.6 | 22.6 | 23.5 | 24.5 | 25.4 |
| 118.....                    | 16.8                                     | 17.8 | 18.7 | 19.7 | 20.6 | 21.6 | 22.5 | 23.5 | 24.4 | 25.3 |
| 119.....                    | 16.8                                     | 17.7 | 18.7 | 19.6 | 20.6 | 21.5 | 22.5 | 23.4 | 24.4 | 25.3 |
| 120.....                    | 16.7                                     | 17.7 | 18.6 | 19.6 | 20.5 | 21.4 | 22.4 | 23.3 | 24.3 | 25.2 |
| 121.....                    | 16.6                                     | 17.6 | 18.5 | 19.5 | 20.4 | 21.4 | 22.3 | 23.3 | 24.2 | 25.2 |
| 122.....                    | 16.6                                     | 17.5 | 18.5 | 19.4 | 20.4 | 21.3 | 22.3 | 23.2 | 24.2 | 25.1 |
| 123.....                    | 16.5                                     | 17.5 | 18.4 | 19.4 | 20.3 | 21.3 | 22.2 | 23.2 | 24.1 | 25.1 |
| 124.....                    | 16.5                                     | 17.4 | 18.4 | 19.3 | 20.3 | 21.2 | 22.2 | 23.1 | 24.1 | 25.0 |
| 125.....                    | 16.4                                     | 17.4 | 18.3 | 19.3 | 20.2 | 21.2 | 22.1 | 23.1 | 24.0 | 24.9 |
| 126.....                    | 16.4                                     | 17.3 | 18.3 | 19.2 | 20.2 | 21.1 | 22.1 | 23.0 | 24.0 | 24.9 |
| 127.....                    | 16.3                                     | 17.3 | 18.2 | 19.2 | 20.1 | 21.0 | 22.0 | 22.9 | 23.9 | 24.8 |
| 128.....                    | 16.3                                     | 17.2 | 18.2 | 19.1 | 20.1 | 21.0 | 21.9 | 22.9 | 23.8 | 24.8 |
| 129.....                    | 16.2                                     | 17.2 | 18.1 | 19.1 | 20.0 | 20.9 | 21.9 | 22.8 | 23.8 | 24.7 |

TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in °F. | Observed degrees A. P. I.                |      |      |      |      |      |      |      |      |      |
|-----------------------------|------------------------------------------|------|------|------|------|------|------|------|------|------|
|                             | 20                                       | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29   |
|                             | Corresponding degrees A. P. I. at 60° F. |      |      |      |      |      |      |      |      |      |
| 130.....                    | 16.2                                     | 17.1 | 18.1 | 19.0 | 19.9 | 20.9 | 21.8 | 22.8 | 23.7 | 24.6 |
| 131.....                    | 16.1                                     | 17.0 | 18.0 | 18.9 | 19.9 | 20.8 | 21.8 | 22.7 | 23.6 | 24.6 |
| 132.....                    | 16.1                                     | 17.0 | 18.0 | 18.9 | 19.8 | 20.8 | 21.7 | 22.7 | 23.6 | 24.5 |
| 133.....                    | 16.0                                     | 16.9 | 17.9 | 18.8 | 19.8 | 20.7 | 21.7 | 22.6 | 23.5 | 24.5 |
| 134.....                    | 16.0                                     | 16.9 | 17.9 | 18.8 | 19.7 | 20.6 | 21.6 | 22.5 | 23.5 | 24.4 |
| 135.....                    | 15.9                                     | 16.8 | 17.8 | 18.7 | 19.7 | 20.6 | 21.6 | 22.5 | 23.4 | 24.4 |
| 136.....                    | 15.9                                     | 16.8 | 17.7 | 18.7 | 19.6 | 20.5 | 21.5 | 22.4 | 23.4 | 24.3 |
| 137.....                    | 15.8                                     | 16.7 | 17.7 | 18.6 | 19.6 | 20.5 | 21.4 | 22.4 | 23.3 | 24.2 |
| 138.....                    | 15.8                                     | 16.7 | 17.6 | 18.6 | 19.5 | 20.4 | 21.4 | 22.3 | 23.2 | 24.2 |
| 139.....                    | 15.7                                     | 16.6 | 17.6 | 18.5 | 19.4 | 20.4 | 21.3 | 22.2 | 23.2 | 24.1 |
| 140.....                    | 15.6                                     | 16.6 | 17.5 | 18.5 | 19.4 | 20.3 | 21.3 | 22.2 | 23.1 | 24.0 |
| 141.....                    | 15.6                                     | 16.5 | 17.5 | 18.4 | 19.3 | 20.3 | 21.2 | 22.1 | 23.1 | 24.0 |
| 142.....                    | 15.5                                     | 16.5 | 17.4 | 18.4 | 19.3 | 20.2 | 21.2 | 22.1 | 23.0 | 23.9 |
| 143.....                    | 15.5                                     | 16.4 | 17.4 | 18.3 | 19.2 | 20.2 | 21.1 | 22.0 | 23.0 | 23.9 |
| 144.....                    | 15.4                                     | 16.4 | 17.3 | 18.3 | 19.2 | 20.1 | 21.0 | 22.0 | 22.9 | 23.8 |
| 145.....                    | 15.4                                     | 16.3 | 17.3 | 18.2 | 19.1 | 20.0 | 21.0 | 21.9 | 22.9 | 23.8 |
| 146.....                    | 15.3                                     | 16.3 | 17.2 | 18.2 | 19.1 | 20.0 | 20.9 | 21.9 | 22.8 | 23.7 |
| 147.....                    | 15.3                                     | 16.2 | 17.2 | 18.1 | 19.0 | 19.9 | 20.9 | 21.8 | 22.7 | 23.6 |
| 148.....                    | 15.2                                     | 16.2 | 17.1 | 18.0 | 18.9 | 19.9 | 20.8 | 21.8 | 22.7 | 23.6 |
| 149.....                    | 15.2                                     | 16.1 | 17.0 | 18.0 | 18.9 | 19.8 | 20.8 | 21.7 | 22.6 | 23.5 |
| 150.....                    | 15.1                                     | 16.1 | 17.0 | 17.9 | 18.8 | 19.8 | 20.7 | 21.7 | 22.6 | 23.5 |
| 151.....                    | 15.1                                     | 16.0 | 16.9 | 17.9 | 18.8 | 19.7 | 20.7 | 21.6 | 22.5 | 23.4 |
| 152.....                    | 15.0                                     | 16.0 | 16.9 | 17.8 | 18.7 | 19.7 | 20.6 | 21.5 | 22.5 | 23.4 |
| 153.....                    | 15.0                                     | 15.9 | 16.8 | 17.8 | 18.7 | 19.6 | 20.6 | 21.5 | 22.4 | 23.3 |
| 154.....                    | 14.9                                     | 15.9 | 16.8 | 17.7 | 18.6 | 19.6 | 20.5 | 21.4 | 22.3 | 23.3 |
| 155.....                    | 14.9                                     | 15.8 | 16.7 | 17.7 | 18.6 | 19.5 | 20.5 | 21.4 | 22.3 | 23.2 |
| 156.....                    | 14.8                                     | 15.7 | 16.7 | 17.6 | 18.5 | 19.4 | 20.4 | 21.3 | 22.2 | 23.2 |
| 157.....                    | 14.8                                     | 15.7 | 16.6 | 17.6 | 18.5 | 19.4 | 20.3 | 21.3 | 22.2 | 23.1 |
| 158.....                    | 14.7                                     | 15.6 | 16.6 | 17.5 | 18.4 | 19.3 | 20.3 | 21.2 | 22.1 | 23.0 |
| 159.....                    | 14.7                                     | 15.6 | 16.5 | 17.4 | 18.4 | 19.3 | 20.2 | 21.1 | 22.1 | 23.0 |
| 160.....                    | 14.6                                     | 15.5 | 16.5 | 17.4 | 18.3 | 19.2 | 20.2 | 21.1 | 22.0 | 22.9 |
| 161.....                    | 14.6                                     | 15.5 | 16.4 | 17.3 | 18.3 | 19.2 | 20.1 | 21.0 | 21.9 | 22.9 |
| 162.....                    | 14.5                                     | 15.4 | 16.4 | 17.3 | 18.2 | 19.1 | 20.1 | 21.0 | 21.9 | 22.8 |
| 163.....                    | 14.5                                     | 15.4 | 16.3 | 17.2 | 18.2 | 19.1 | 20.0 | 20.9 | 21.8 | 22.7 |
| 164.....                    | 14.4                                     | 15.3 | 16.3 | 17.2 | 18.1 | 19.0 | 19.9 | 20.9 | 21.8 | 22.7 |
| 165.....                    | 14.4                                     | 15.3 | 16.2 | 17.1 | 18.0 | 18.9 | 19.9 | 20.8 | 21.7 | 22.6 |
| 166.....                    | 14.3                                     | 15.2 | 16.2 | 17.1 | 18.0 | 18.9 | 19.8 | 20.7 | 21.7 | 22.6 |
| 167.....                    | 14.3                                     | 15.2 | 16.1 | 17.0 | 17.9 | 18.8 | 19.8 | 20.7 | 21.6 | 22.5 |
| 168.....                    | 14.2                                     | 15.1 | 16.1 | 17.0 | 17.9 | 18.8 | 19.7 | 20.6 | 21.6 | 22.5 |
| 169.....                    | 14.2                                     | 15.1 | 16.0 | 16.9 | 17.8 | 18.7 | 19.7 | 20.6 | 21.5 | 22.4 |
| 170.....                    | 14.1                                     | 15.0 | 16.0 | 16.9 | 17.8 | 18.7 | 19.6 | 20.5 | 21.4 | 22.3 |
| 171.....                    | 14.1                                     | 15.0 | 15.9 | 16.8 | 17.7 | 18.6 | 19.6 | 20.5 | 21.4 | 22.3 |
| 172.....                    | 14.0                                     | 14.9 | 15.9 | 16.8 | 17.7 | 18.6 | 19.5 | 20.4 | 21.3 | 22.2 |
| 173.....                    | 14.0                                     | 14.9 | 15.8 | 16.7 | 17.6 | 18.5 | 19.5 | 20.4 | 21.3 | 22.2 |
| 174.....                    | 13.9                                     | 14.8 | 15.8 | 16.7 | 17.6 | 18.5 | 19.4 | 20.3 | 21.2 | 22.1 |
| 175.....                    | 13.9                                     | 14.8 | 15.7 | 16.6 | 17.5 | 18.4 | 19.3 | 20.3 | 21.2 | 22.1 |
| 176.....                    | 13.8                                     | 14.7 | 15.7 | 16.6 | 17.5 | 18.4 | 19.3 | 20.2 | 21.1 | 22.0 |
| 177.....                    | 13.8                                     | 14.7 | 15.6 | 16.5 | 17.4 | 18.3 | 19.2 | 20.1 | 21.0 | 21.9 |
| 178.....                    | 13.7                                     | 14.6 | 15.6 | 16.5 | 17.4 | 18.3 | 19.2 | 20.1 | 21.0 | 21.9 |
| 179.....                    | 13.7                                     | 14.6 | 15.5 | 16.4 | 17.3 | 18.2 | 19.1 | 20.0 | 20.9 | 21.8 |
| 180.....                    | 13.6                                     | 14.6 | 15.5 | 16.4 | 17.3 | 18.2 | 19.1 | 20.0 | 20.9 | 21.8 |
| 181.....                    | 13.6                                     | 14.5 | 15.4 | 16.3 | 17.2 | 18.1 | 19.0 | 19.9 | 20.8 | 21.7 |
| 182.....                    | 13.5                                     | 14.5 | 15.4 | 16.3 | 17.2 | 18.1 | 19.0 | 19.9 | 20.8 | 21.7 |
| 183.....                    | 13.5                                     | 14.4 | 15.3 | 16.2 | 17.1 | 18.0 | 18.9 | 19.8 | 20.7 | 21.6 |
| 184.....                    | 13.4                                     | 14.4 | 15.3 | 16.2 | 17.1 | 18.0 | 18.9 | 19.8 | 20.7 | 21.6 |
| 185.....                    | 13.4                                     | 14.3 | 15.2 | 16.1 | 17.0 | 17.9 | 18.8 | 19.7 | 20.6 | 21.5 |
| 186.....                    | 13.4                                     | 14.3 | 15.2 | 16.1 | 17.0 | 17.9 | 18.8 | 19.7 | 20.6 | 21.4 |
| 187.....                    | 13.3                                     | 14.2 | 15.1 | 16.0 | 16.9 | 17.8 | 18.7 | 19.6 | 20.5 | 21.4 |
| 188.....                    | 13.3                                     | 14.2 | 15.1 | 16.0 | 16.9 | 17.8 | 18.7 | 19.6 | 20.5 | 21.3 |
| 189.....                    | 13.2                                     | 14.1 | 15.0 | 15.9 | 16.8 | 17.7 | 18.6 | 19.5 | 20.4 | 21.3 |
| 190.....                    | 13.2                                     | 14.1 | 15.0 | 15.9 | 16.8 | 17.7 | 18.6 | 19.5 | 20.3 | 21.2 |
| 191.....                    | 13.1                                     | 14.0 | 14.9 | 15.8 | 16.7 | 17.6 | 18.5 | 19.4 | 20.3 | 21.2 |
| 192.....                    | 13.1                                     | 14.0 | 14.9 | 15.8 | 16.7 | 17.6 | 18.4 | 19.3 | 20.2 | 21.1 |
| 193.....                    | 13.0                                     | 13.9 | 14.8 | 15.7 | 16.6 | 17.5 | 18.4 | 19.3 | 20.2 | 21.1 |
| 194.....                    | 13.0                                     | 13.9 | 14.8 | 15.7 | 16.6 | 17.4 | 18.3 | 19.2 | 20.1 | 21.0 |
| 195.....                    | 12.9                                     | 13.8 | 14.7 | 15.6 | 16.5 | 17.4 | 18.3 | 19.2 | 20.1 | 21.0 |



TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in °F. | Observed degrees A. P. I.                |      |      |      |      |      |      |      |      |      |
|-----------------------------|------------------------------------------|------|------|------|------|------|------|------|------|------|
|                             | 30                                       | 31   | 32   | 33   | 34   | 35   | 36   | 37   | 38   | 39   |
|                             | Corresponding degrees A. P. I. at 60° F. |      |      |      |      |      |      |      |      |      |
| 0.....                      | 34.2                                     | 35.3 | 36.4 | 37.4 | 38.5 | 39.6 | 40.7 | 41.8 | 42.9 | 44.0 |
| 1.....                      | 34.1                                     | 35.2 | 36.3 | 37.3 | 38.4 | 39.5 | 40.6 | 41.7 | 42.8 | 43.9 |
| 2.....                      | 34.0                                     | 35.1 | 36.2 | 37.2 | 38.3 | 39.4 | 40.5 | 41.6 | 42.7 | 43.8 |
| 3.....                      | 34.0                                     | 35.0 | 36.1 | 37.2 | 38.2 | 39.3 | 40.4 | 41.5 | 42.6 | 43.7 |
| 4.....                      | 33.9                                     | 34.9 | 36.0 | 37.1 | 38.2 | 39.2 | 40.3 | 41.4 | 42.5 | 43.6 |
| 5.....                      | 33.8                                     | 34.9 | 36.0 | 37.0 | 38.1 | 39.2 | 40.2 | 41.3 | 42.4 | 43.5 |
| 6.....                      | 33.7                                     | 34.8 | 35.9 | 36.9 | 38.0 | 39.1 | 40.1 | 41.2 | 42.3 | 43.4 |
| 7.....                      | 33.7                                     | 34.7 | 35.8 | 36.8 | 37.9 | 39.0 | 40.1 | 41.1 | 42.2 | 43.3 |
| 8.....                      | 33.6                                     | 34.7 | 35.7 | 36.8 | 37.8 | 38.9 | 40.0 | 41.1 | 42.1 | 43.2 |
| 9.....                      | 33.5                                     | 34.6 | 35.7 | 36.7 | 37.8 | 38.9 | 39.9 | 41.0 | 42.1 | 43.1 |
| 10.....                     | 33.4                                     | 34.5 | 35.6 | 36.6 | 37.7 | 38.8 | 39.8 | 40.9 | 42.0 | 43.1 |
| 11.....                     | 33.4                                     | 34.4 | 35.5 | 36.5 | 37.6 | 38.7 | 39.7 | 40.8 | 41.9 | 43.0 |
| 12.....                     | 33.3                                     | 34.4 | 35.4 | 36.5 | 37.5 | 38.6 | 39.7 | 40.7 | 41.8 | 42.9 |
| 13.....                     | 33.2                                     | 34.3 | 35.3 | 36.4 | 37.5 | 38.5 | 39.6 | 40.6 | 41.7 | 42.8 |
| 14.....                     | 33.1                                     | 34.2 | 35.3 | 36.3 | 37.4 | 38.5 | 39.5 | 40.6 | 41.6 | 42.7 |
| 15.....                     | 33.1                                     | 34.1 | 35.2 | 36.2 | 37.3 | 38.4 | 39.4 | 40.5 | 41.6 | 42.6 |
| 16.....                     | 33.0                                     | 34.1 | 35.1 | 36.2 | 37.2 | 38.3 | 39.3 | 40.4 | 41.5 | 42.5 |
| 17.....                     | 32.9                                     | 34.0 | 35.0 | 36.1 | 37.1 | 38.2 | 39.3 | 40.3 | 41.4 | 42.5 |
| 18.....                     | 32.9                                     | 33.9 | 35.0 | 36.0 | 37.1 | 38.2 | 39.2 | 40.3 | 41.3 | 42.4 |
| 19.....                     | 32.8                                     | 33.8 | 34.9 | 36.0 | 37.0 | 38.1 | 39.1 | 40.2 | 41.2 | 42.3 |
| 20.....                     | 32.7                                     | 33.8 | 34.8 | 35.9 | 36.9 | 38.0 | 39.0 | 40.1 | 41.2 | 42.2 |
| 21.....                     | 32.6                                     | 33.7 | 34.7 | 35.8 | 36.8 | 37.9 | 39.0 | 40.0 | 41.1 | 42.1 |
| 22.....                     | 32.6                                     | 33.6 | 34.7 | 35.7 | 36.8 | 37.8 | 38.9 | 39.9 | 41.0 | 42.1 |
| 23.....                     | 32.5                                     | 33.6 | 34.6 | 35.7 | 36.7 | 37.8 | 38.8 | 39.9 | 40.9 | 42.0 |
| 24.....                     | 32.4                                     | 33.5 | 34.5 | 35.6 | 36.6 | 37.7 | 38.7 | 39.8 | 40.8 | 41.9 |
| 25.....                     | 32.4                                     | 33.4 | 34.5 | 35.5 | 36.5 | 37.6 | 38.6 | 39.7 | 40.7 | 41.8 |
| 26.....                     | 32.3                                     | 33.3 | 34.4 | 35.4 | 36.5 | 37.5 | 38.6 | 39.6 | 40.7 | 41.7 |
| 27.....                     | 32.2                                     | 33.3 | 34.3 | 35.3 | 36.4 | 37.4 | 38.5 | 39.5 | 40.6 | 41.6 |
| 28.....                     | 32.2                                     | 33.2 | 34.2 | 35.3 | 36.3 | 37.4 | 38.4 | 39.4 | 40.5 | 41.5 |
| 29.....                     | 32.1                                     | 33.1 | 34.2 | 35.2 | 36.2 | 37.3 | 38.3 | 39.4 | 40.4 | 41.5 |
| 30.....                     | 32.0                                     | 33.0 | 34.1 | 35.1 | 36.1 | 37.2 | 38.2 | 39.3 | 40.3 | 41.4 |
| 31.....                     | 31.9                                     | 33.0 | 34.0 | 35.0 | 36.1 | 37.1 | 38.2 | 39.2 | 40.3 | 41.3 |
| 32.....                     | 31.9                                     | 32.9 | 34.0 | 35.0 | 36.0 | 37.1 | 38.1 | 39.1 | 40.2 | 41.2 |
| 33.....                     | 31.8                                     | 32.8 | 33.9 | 34.9 | 35.9 | 37.0 | 38.0 | 39.0 | 40.1 | 41.1 |
| 34.....                     | 31.7                                     | 32.8 | 33.8 | 34.8 | 35.9 | 36.9 | 37.9 | 39.0 | 40.0 | 41.1 |
| 35.....                     | 31.7                                     | 32.7 | 33.7 | 34.8 | 35.8 | 36.8 | 37.9 | 38.9 | 40.0 | 41.0 |
| 36.....                     | 31.6                                     | 32.6 | 33.7 | 34.7 | 35.7 | 36.8 | 37.8 | 38.8 | 39.9 | 40.9 |
| 37.....                     | 31.5                                     | 32.6 | 33.6 | 34.6 | 35.6 | 36.7 | 37.7 | 38.7 | 39.8 | 40.8 |
| 38.....                     | 31.5                                     | 32.5 | 33.5 | 34.6 | 35.6 | 36.6 | 37.6 | 38.7 | 39.7 | 40.7 |
| 39.....                     | 31.4                                     | 32.4 | 33.5 | 34.5 | 35.5 | 36.5 | 37.6 | 38.6 | 39.6 | 40.7 |
| 40.....                     | 31.3                                     | 32.3 | 33.4 | 34.4 | 35.4 | 36.5 | 37.5 | 38.5 | 39.5 | 40.6 |
| 41.....                     | 31.3                                     | 32.3 | 33.3 | 34.3 | 35.4 | 36.4 | 37.4 | 38.4 | 39.4 | 40.5 |
| 42.....                     | 31.2                                     | 32.2 | 33.2 | 34.3 | 35.3 | 36.3 | 37.3 | 38.3 | 39.4 | 40.4 |
| 43.....                     | 31.1                                     | 32.1 | 33.2 | 34.2 | 35.2 | 36.2 | 37.2 | 38.2 | 39.3 | 40.3 |
| 44.....                     | 31.0                                     | 32.1 | 33.1 | 34.1 | 35.1 | 36.2 | 37.2 | 38.2 | 39.2 | 40.3 |
| 45.....                     | 31.0                                     | 32.0 | 33.0 | 34.1 | 35.1 | 36.1 | 37.1 | 38.1 | 39.2 | 40.2 |
| 46.....                     | 30.9                                     | 31.9 | 32.9 | 34.0 | 35.0 | 36.0 | 37.0 | 38.1 | 39.1 | 40.1 |
| 47.....                     | 30.8                                     | 31.9 | 32.9 | 33.9 | 34.9 | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 |
| 48.....                     | 30.8                                     | 31.8 | 32.8 | 33.8 | 34.8 | 35.9 | 36.9 | 37.9 | 38.9 | 40.0 |
| 49.....                     | 30.7                                     | 31.7 | 32.8 | 33.8 | 34.8 | 35.8 | 36.8 | 37.8 | 38.8 | 39.9 |
| 50.....                     | 30.7                                     | 31.7 | 32.7 | 33.7 | 34.7 | 35.7 | 36.7 | 37.7 | 38.8 | 39.8 |
| 51.....                     | 30.6                                     | 31.6 | 32.6 | 33.6 | 34.7 | 35.7 | 36.7 | 37.7 | 38.7 | 39.7 |
| 52.....                     | 30.5                                     | 31.5 | 32.6 | 33.6 | 34.6 | 35.6 | 36.6 | 37.6 | 38.6 | 39.6 |
| 53.....                     | 30.5                                     | 31.5 | 32.5 | 33.5 | 34.5 | 35.5 | 36.5 | 37.5 | 38.5 | 39.6 |
| 54.....                     | 30.4                                     | 31.4 | 32.4 | 33.4 | 34.4 | 35.4 | 36.4 | 37.5 | 38.5 | 39.5 |
| 55.....                     | 30.3                                     | 31.3 | 32.3 | 33.4 | 34.4 | 35.4 | 36.4 | 37.4 | 38.4 | 39.4 |
| 56.....                     | 30.2                                     | 31.2 | 32.3 | 33.3 | 34.3 | 35.3 | 36.3 | 37.3 | 38.3 | 39.3 |
| 57.....                     | 30.2                                     | 31.2 | 32.2 | 33.2 | 34.2 | 35.2 | 36.2 | 37.2 | 38.2 | 39.2 |
| 58.....                     | 30.1                                     | 31.1 | 32.1 | 33.1 | 34.1 | 35.1 | 36.1 | 37.1 | 38.1 | 39.2 |
| 59.....                     | 30.0                                     | 31.0 | 32.1 | 33.1 | 34.1 | 35.1 | 36.1 | 37.1 | 38.1 | 39.1 |
| 60.....                     | 30.0                                     | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 | 36.0 | 37.0 | 38.0 | 39.0 |
| 61.....                     | 29.9                                     | 30.9 | 31.9 | 32.9 | 33.9 | 34.9 | 35.9 | 36.9 | 37.9 | 38.9 |
| 62.....                     | 29.9                                     | 30.9 | 31.9 | 32.9 | 33.9 | 34.9 | 35.9 | 36.9 | 37.9 | 38.9 |
| 63.....                     | 29.8                                     | 30.8 | 31.8 | 32.8 | 33.8 | 34.8 | 35.8 | 36.8 | 37.8 | 38.8 |
| 64.....                     | 29.7                                     | 30.7 | 31.7 | 32.7 | 33.7 | 34.7 | 35.7 | 36.7 | 37.7 | 38.7 |



TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in °F. | Observed degrees A. P. I.                |      |      |      |      |      |      |      |      |      |
|-----------------------------|------------------------------------------|------|------|------|------|------|------|------|------|------|
|                             | 30                                       | 31   | 32   | 33   | 34   | 35   | 36   | 37   | 38   | 39   |
|                             | Corresponding degrees A. P. I. at 60 °F. |      |      |      |      |      |      |      |      |      |
| 65.....                     | 29.7                                     | 30.7 | 31.7 | 32.7 | 33.7 | 34.7 | 35.6 | 36.6 | 37.6 | 38.6 |
| 66.....                     | 29.6                                     | 30.6 | 31.6 | 32.6 | 33.6 | 34.6 | 35.6 | 36.6 | 37.6 | 38.6 |
| 67.....                     | 29.5                                     | 30.5 | 31.5 | 32.5 | 33.5 | 34.5 | 35.5 | 36.5 | 37.5 | 38.5 |
| 68.....                     | 29.5                                     | 30.5 | 31.5 | 32.4 | 33.4 | 34.4 | 35.4 | 36.4 | 37.4 | 38.4 |
| 69.....                     | 29.4                                     | 30.4 | 31.4 | 32.4 | 33.4 | 34.4 | 35.3 | 36.3 | 37.3 | 38.3 |
| 70.....                     | 29.3                                     | 30.3 | 31.3 | 32.3 | 33.3 | 34.3 | 35.3 | 36.2 | 37.2 | 38.2 |
| 71.....                     | 29.3                                     | 30.2 | 31.2 | 32.2 | 33.2 | 34.2 | 35.2 | 36.2 | 37.2 | 38.2 |
| 72.....                     | 29.2                                     | 30.2 | 31.2 | 32.2 | 33.1 | 34.1 | 35.1 | 36.1 | 37.1 | 38.1 |
| 73.....                     | 29.1                                     | 30.1 | 31.1 | 32.1 | 33.1 | 34.1 | 35.0 | 36.0 | 37.0 | 38.0 |
| 74.....                     | 29.1                                     | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 | 36.0 | 36.9 | 37.9 |
| 75.....                     | 29.0                                     | 30.0 | 31.0 | 31.9 | 32.9 | 33.9 | 34.9 | 35.9 | 36.9 | 37.9 |
| 76.....                     | 28.9                                     | 29.9 | 30.9 | 31.9 | 32.9 | 33.9 | 34.8 | 35.8 | 36.8 | 37.8 |
| 77.....                     | 28.9                                     | 29.9 | 30.9 | 31.8 | 32.8 | 33.8 | 34.8 | 35.7 | 36.7 | 37.7 |
| 78.....                     | 28.8                                     | 29.8 | 30.8 | 31.7 | 32.7 | 33.7 | 34.7 | 35.7 | 36.7 | 37.6 |
| 79.....                     | 28.7                                     | 29.7 | 30.7 | 31.7 | 32.6 | 33.6 | 34.6 | 35.6 | 36.6 | 37.6 |
| 80.....                     | 28.7                                     | 29.6 | 30.6 | 31.6 | 32.6 | 33.6 | 34.6 | 35.5 | 36.5 | 37.5 |
| 81.....                     | 28.6                                     | 29.6 | 30.6 | 31.5 | 32.5 | 33.5 | 34.5 | 35.4 | 36.4 | 37.4 |
| 82.....                     | 28.5                                     | 29.5 | 30.5 | 31.5 | 32.5 | 33.4 | 34.4 | 35.4 | 36.4 | 37.3 |
| 83.....                     | 28.5                                     | 29.5 | 30.4 | 31.4 | 32.4 | 33.4 | 34.3 | 35.3 | 36.3 | 37.2 |
| 84.....                     | 28.4                                     | 29.4 | 30.4 | 31.3 | 32.3 | 33.3 | 34.3 | 35.2 | 36.2 | 37.2 |
| 85.....                     | 28.4                                     | 29.3 | 30.3 | 31.3 | 32.2 | 33.2 | 34.2 | 35.1 | 36.1 | 37.1 |
| 86.....                     | 28.3                                     | 29.3 | 30.2 | 31.2 | 32.2 | 33.1 | 34.1 | 35.1 | 36.1 | 37.0 |
| 87.....                     | 28.2                                     | 29.2 | 30.2 | 31.1 | 32.1 | 33.1 | 34.1 | 35.0 | 36.0 | 37.0 |
| 88.....                     | 28.2                                     | 29.1 | 30.1 | 31.1 | 32.0 | 33.0 | 34.0 | 34.9 | 35.9 | 36.9 |
| 89.....                     | 28.1                                     | 29.1 | 30.1 | 31.0 | 32.0 | 33.0 | 33.9 | 34.9 | 35.9 | 36.8 |
| 90.....                     | 28.0                                     | 29.0 | 30.0 | 30.9 | 31.9 | 32.9 | 33.8 | 34.8 | 35.8 | 36.7 |
| 91.....                     | 28.0                                     | 28.9 | 29.9 | 30.9 | 31.8 | 32.8 | 33.8 | 34.7 | 35.7 | 36.7 |
| 92.....                     | 27.9                                     | 28.9 | 29.9 | 30.8 | 31.8 | 32.7 | 33.7 | 34.7 | 35.6 | 36.6 |
| 93.....                     | 27.9                                     | 28.8 | 29.8 | 30.7 | 31.7 | 32.7 | 33.6 | 34.6 | 35.6 | 36.5 |
| 94.....                     | 27.8                                     | 28.7 | 29.7 | 30.7 | 31.6 | 32.6 | 33.6 | 34.5 | 35.5 | 36.5 |
| 95.....                     | 27.7                                     | 28.7 | 29.7 | 30.6 | 31.6 | 32.6 | 33.5 | 34.5 | 35.4 | 36.4 |
| 96.....                     | 27.7                                     | 28.6 | 29.6 | 30.5 | 31.5 | 32.5 | 33.5 | 34.4 | 35.4 | 36.3 |
| 97.....                     | 27.6                                     | 28.6 | 29.5 | 30.5 | 31.5 | 32.4 | 33.4 | 34.3 | 35.3 | 36.2 |
| 98.....                     | 27.5                                     | 28.5 | 29.5 | 30.4 | 31.4 | 32.4 | 33.3 | 34.3 | 35.2 | 36.2 |
| 99.....                     | 27.5                                     | 28.4 | 29.4 | 30.4 | 31.3 | 32.3 | 33.3 | 34.2 | 35.2 | 36.1 |
| 100.....                    | 27.4                                     | 28.4 | 29.3 | 30.3 | 31.3 | 32.2 | 33.2 | 34.1 | 35.1 | 36.1 |
| 101.....                    | 27.3                                     | 28.3 | 29.3 | 30.2 | 31.2 | 32.2 | 33.1 | 34.1 | 35.0 | 36.0 |
| 102.....                    | 27.3                                     | 28.2 | 29.2 | 30.2 | 31.1 | 32.1 | 33.0 | 34.0 | 34.9 | 35.9 |
| 103.....                    | 27.2                                     | 28.2 | 29.1 | 30.1 | 31.0 | 32.0 | 32.9 | 33.9 | 34.9 | 35.8 |
| 104.....                    | 27.2                                     | 28.1 | 29.1 | 30.0 | 31.0 | 31.9 | 32.9 | 33.8 | 34.8 | 35.7 |
| 105.....                    | 27.1                                     | 28.0 | 29.0 | 30.0 | 30.9 | 31.9 | 32.8 | 33.8 | 34.7 | 35.7 |
| 106.....                    | 27.0                                     | 28.0 | 29.0 | 29.9 | 30.9 | 31.8 | 32.8 | 33.7 | 34.7 | 35.6 |
| 107.....                    | 27.0                                     | 27.9 | 28.9 | 29.8 | 30.8 | 31.7 | 32.7 | 33.6 | 34.6 | 35.5 |
| 108.....                    | 26.9                                     | 27.9 | 28.8 | 29.8 | 30.7 | 31.7 | 32.6 | 33.6 | 34.5 | 35.5 |
| 109.....                    | 26.9                                     | 27.8 | 28.8 | 29.7 | 30.7 | 31.6 | 32.6 | 33.5 | 34.4 | 35.4 |
| 110.....                    | 26.8                                     | 27.7 | 28.7 | 29.6 | 30.6 | 31.5 | 32.5 | 33.4 | 34.4 | 35.3 |
| 111.....                    | 26.7                                     | 27.7 | 28.6 | 29.6 | 30.5 | 31.5 | 32.4 | 33.4 | 34.3 | 35.2 |
| 112.....                    | 26.7                                     | 27.6 | 28.6 | 29.5 | 30.5 | 31.4 | 32.3 | 33.3 | 34.2 | 35.2 |
| 113.....                    | 26.6                                     | 27.5 | 28.5 | 29.4 | 30.4 | 31.3 | 32.3 | 33.2 | 34.1 | 35.1 |
| 114.....                    | 26.5                                     | 27.5 | 28.4 | 29.4 | 30.3 | 31.3 | 32.2 | 33.1 | 34.1 | 35.0 |
| 115.....                    | 26.5                                     | 27.4 | 28.4 | 29.3 | 30.3 | 31.2 | 32.1 | 33.1 | 34.0 | 34.9 |
| 116.....                    | 26.4                                     | 27.4 | 28.3 | 29.3 | 30.2 | 31.2 | 32.1 | 33.0 | 34.0 | 34.9 |
| 117.....                    | 26.4                                     | 27.3 | 28.3 | 29.2 | 30.1 | 31.1 | 32.0 | 32.9 | 33.9 | 34.8 |
| 118.....                    | 26.3                                     | 27.3 | 28.2 | 29.1 | 30.1 | 31.0 | 31.9 | 32.9 | 33.8 | 34.7 |
| 119.....                    | 26.3                                     | 27.2 | 28.2 | 29.1 | 30.0 | 31.0 | 31.9 | 32.8 | 33.7 | 34.7 |
| 120.....                    | 26.2                                     | 27.1 | 28.1 | 29.0 | 30.0 | 30.9 | 31.8 | 32.7 | 33.7 | 34.6 |
| 121.....                    | 26.1                                     | 27.1 | 28.0 | 28.9 | 29.9 | 30.8 | 31.7 | 32.7 | 33.6 | 34.5 |
| 122.....                    | 26.1                                     | 27.0 | 28.0 | 28.9 | 29.8 | 30.7 | 31.7 | 32.6 | 33.5 | 34.5 |
| 123.....                    | 26.0                                     | 26.9 | 27.9 | 28.8 | 29.8 | 30.7 | 31.6 | 32.5 | 33.5 | 34.4 |
| 124.....                    | 25.9                                     | 26.9 | 27.8 | 28.7 | 29.7 | 30.6 | 31.6 | 32.5 | 33.4 | 34.3 |
| 125.....                    | 25.9                                     | 26.8 | 27.8 | 28.7 | 29.6 | 30.6 | 31.5 | 32.4 | 33.3 | 34.3 |
| 126.....                    | 25.8                                     | 26.8 | 27.7 | 28.6 | 29.6 | 30.5 | 31.4 | 32.3 | 33.3 | 34.2 |
| 127.....                    | 25.8                                     | 26.7 | 27.6 | 28.6 | 29.5 | 30.4 | 31.3 | 32.3 | 33.2 | 34.1 |
| 128.....                    | 25.7                                     | 26.6 | 27.6 | 28.5 | 29.4 | 30.4 | 31.3 | 32.2 | 33.1 | 34.1 |
| 129.....                    | 25.6                                     | 26.6 | 27.5 | 28.4 | 29.4 | 30.3 | 31.2 | 32.1 | 33.1 | 34.0 |

TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in ° F. | Observed degrees A. P. I.                |      |      |      |      |      |      |      |      |      |
|------------------------------|------------------------------------------|------|------|------|------|------|------|------|------|------|
|                              | 30                                       | 31   | 32   | 33   | 34   | 35   | 36   | 37   | 38   | 39   |
|                              | Corresponding degrees A. P. I. at 60° F. |      |      |      |      |      |      |      |      |      |
| 130.....                     | 25.6                                     | 26.5 | 27.4 | 28.4 | 29.3 | 30.2 | 31.2 | 32.1 | 33.0 | 33.9 |
| 131.....                     | 25.5                                     | 26.4 | 27.4 | 28.3 | 29.2 | 30.2 | 31.1 | 32.0 | 32.9 | 33.9 |
| 132.....                     | 25.5                                     | 26.4 | 27.3 | 28.3 | 29.2 | 30.1 | 31.0 | 31.9 | 32.9 | 33.8 |
| 133.....                     | 25.4                                     | 26.3 | 27.3 | 28.2 | 29.1 | 30.1 | 31.0 | 31.9 | 32.8 | 33.7 |
| 134.....                     | 25.3                                     | 26.3 | 27.2 | 28.1 | 29.1 | 30.0 | 30.9 | 31.8 | 32.7 | 33.6 |
| 135.....                     | 25.3                                     | 26.2 | 27.1 | 28.1 | 29.0 | 29.9 | 30.8 | 31.7 | 32.7 | 33.6 |
| 136.....                     | 25.2                                     | 26.1 | 27.1 | 28.0 | 28.9 | 29.9 | 30.8 | 31.7 | 32.6 | 33.5 |
| 137.....                     | 25.2                                     | 26.1 | 27.0 | 27.9 | 28.9 | 29.8 | 30.7 | 31.6 | 32.6 | 33.5 |
| 138.....                     | 25.1                                     | 26.0 | 27.0 | 27.9 | 28.8 | 29.7 | 30.6 | 31.6 | 32.5 | 33.4 |
| 139.....                     | 25.0                                     | 26.0 | 26.9 | 27.8 | 28.7 | 29.7 | 30.6 | 31.5 | 32.4 | 33.3 |
| 140.....                     | 25.0                                     | 25.9 | 26.8 | 27.7 | 28.7 | 29.6 | 30.5 | 31.4 | 32.3 | 33.2 |
| 141.....                     | 24.9                                     | 25.8 | 26.8 | 27.7 | 28.6 | 29.5 | 30.4 | 31.3 | 32.3 | 33.2 |
| 142.....                     | 24.9                                     | 25.8 | 26.7 | 27.6 | 28.5 | 29.5 | 30.4 | 31.3 | 32.2 | 33.1 |
| 143.....                     | 24.8                                     | 25.7 | 26.6 | 27.6 | 28.5 | 29.4 | 30.3 | 31.2 | 32.1 | 33.0 |
| 144.....                     | 24.7                                     | 25.7 | 26.6 | 27.5 | 28.4 | 29.3 | 30.2 | 31.2 | 32.1 | 33.0 |
| 145.....                     | 24.7                                     | 25.6 | 26.5 | 27.4 | 28.4 | 29.3 | 30.2 | 31.1 | 32.0 | 32.9 |
| 146.....                     | 24.6                                     | 25.6 | 26.5 | 27.4 | 28.3 | 29.2 | 30.1 | 31.0 | 32.0 | 32.9 |
| 147.....                     | 24.6                                     | 25.5 | 26.4 | 27.3 | 28.3 | 29.2 | 30.1 | 31.0 | 31.9 | 32.8 |
| 148.....                     | 24.5                                     | 25.4 | 26.4 | 27.3 | 28.2 | 29.1 | 30.0 | 30.9 | 31.8 | 32.7 |
| 149.....                     | 24.5                                     | 25.4 | 26.3 | 27.2 | 28.1 | 29.1 | 30.0 | 30.9 | 31.8 | 32.7 |
| 150.....                     | 24.4                                     | 25.3 | 26.3 | 27.2 | 28.1 | 29.0 | 29.9 | 30.8 | 31.7 | 32.6 |
| 151.....                     | 24.4                                     | 25.3 | 26.2 | 27.1 | 28.0 | 28.9 | 29.8 | 30.7 | 31.6 | 32.5 |
| 152.....                     | 24.3                                     | 25.2 | 26.1 | 27.0 | 28.0 | 28.9 | 29.8 | 30.7 | 31.6 | 32.5 |
| 153.....                     | 24.3                                     | 25.2 | 26.1 | 27.0 | 27.9 | 28.8 | 29.7 | 30.6 | 31.5 | 32.4 |
| 154.....                     | 24.2                                     | 25.1 | 26.0 | 26.9 | 27.8 | 28.7 | 29.6 | 30.5 | 31.4 | 32.3 |
| 155.....                     | 24.1                                     | 25.0 | 25.9 | 26.9 | 27.8 | 28.7 | 29.6 | 30.5 | 31.4 | 32.3 |
| 156.....                     | 24.1                                     | 25.0 | 25.9 | 26.8 | 27.7 | 28.6 | 29.5 | 30.4 | 31.3 | 32.2 |
| 157.....                     | 24.0                                     | 24.9 | 25.8 | 26.7 | 27.6 | 28.5 | 29.4 | 30.3 | 31.2 | 32.1 |
| 158.....                     | 23.9                                     | 24.8 | 25.8 | 26.7 | 27.6 | 28.5 | 29.4 | 30.3 | 31.2 | 32.1 |
| 159.....                     | 23.9                                     | 24.8 | 25.7 | 26.6 | 27.5 | 28.4 | 29.3 | 30.2 | 31.1 | 32.0 |
| 160.....                     | 23.8                                     | 24.7 | 25.6 | 26.5 | 27.4 | 28.4 | 29.3 | 30.2 | 31.1 | 31.9 |
| 161.....                     | 23.8                                     | 24.7 | 25.6 | 26.5 | 27.4 | 28.3 | 29.2 | 30.1 | 31.0 | 31.9 |
| 162.....                     | 23.7                                     | 24.6 | 25.5 | 26.4 | 27.3 | 28.2 | 29.1 | 30.0 | 30.9 | 31.8 |
| 163.....                     | 23.7                                     | 24.6 | 25.5 | 26.4 | 27.3 | 28.2 | 29.1 | 30.0 | 30.9 | 31.7 |
| 164.....                     | 23.6                                     | 24.5 | 25.4 | 26.3 | 27.2 | 28.1 | 29.0 | 29.9 | 30.8 | 31.7 |
| 165.....                     | 23.5                                     | 24.4 | 25.3 | 26.2 | 27.1 | 28.0 | 28.9 | 29.8 | 30.7 | 31.6 |
| 166.....                     | 23.5                                     | 24.4 | 25.3 | 26.2 | 27.1 | 28.0 | 28.9 | 29.8 | 30.7 | 31.6 |
| 167.....                     | 23.4                                     | 24.3 | 25.2 | 26.1 | 27.0 | 27.9 | 28.8 | 29.7 | 30.6 | 31.5 |
| 168.....                     | 23.4                                     | 24.3 | 25.2 | 26.1 | 27.0 | 27.9 | 28.7 | 29.6 | 30.5 | 31.4 |
| 169.....                     | 23.3                                     | 24.2 | 25.1 | 26.0 | 26.9 | 27.8 | 28.7 | 29.6 | 30.5 | 31.3 |
| 170.....                     | 23.2                                     | 24.1 | 25.0 | 25.9 | 26.8 | 27.7 | 28.6 | 29.5 | 30.4 | 31.3 |
| 171.....                     | 23.2                                     | 24.1 | 25.0 | 25.9 | 26.8 | 27.7 | 28.6 | 29.5 | 30.4 | 31.2 |
| 172.....                     | 23.1                                     | 24.0 | 24.9 | 25.8 | 26.7 | 27.6 | 28.5 | 29.4 | 30.3 | 31.2 |
| 173.....                     | 23.1                                     | 24.0 | 24.9 | 25.8 | 26.7 | 27.6 | 28.5 | 29.3 | 30.2 | 31.1 |
| 174.....                     | 23.0                                     | 23.9 | 24.8 | 25.7 | 26.6 | 27.5 | 28.4 | 29.3 | 30.2 | 31.0 |
| 175.....                     | 22.9                                     | 23.8 | 24.7 | 25.6 | 26.5 | 27.4 | 28.3 | 29.2 | 30.1 | 31.0 |
| 176.....                     | 22.9                                     | 23.8 | 24.7 | 25.6 | 26.5 | 27.4 | 28.3 | 29.1 | 30.0 | 30.9 |
| 177.....                     | 22.8                                     | 23.7 | 24.6 | 25.5 | 26.4 | 27.3 | 28.2 | 29.1 | 30.0 | 30.9 |
| 178.....                     | 22.8                                     | 23.7 | 24.6 | 25.5 | 26.4 | 27.3 | 28.1 | 29.0 | 29.9 | 30.8 |
| 179.....                     | 22.7                                     | 23.6 | 24.5 | 25.4 | 26.3 | 27.2 | 28.1 | 29.0 | 29.9 | 30.7 |
| 180.....                     | 22.7                                     | 23.6 | 24.5 | 25.3 | 26.2 | 27.1 | 28.0 | 28.9 | 29.8 | 30.7 |
| 181.....                     | 22.6                                     | 23.5 | 24.4 | 25.3 | 26.2 | 27.1 | 28.0 | 28.8 | 29.7 | 30.6 |
| 182.....                     | 22.6                                     | 23.5 | 24.4 | 25.2 | 26.1 | 27.0 | 27.9 | 28.8 | 29.7 | 30.5 |
| 183.....                     | 22.5                                     | 23.4 | 24.3 | 25.2 | 26.1 | 27.0 | 27.8 | 28.7 | 29.6 | 30.5 |
| 184.....                     | 22.5                                     | 23.4 | 24.3 | 25.1 | 26.0 | 26.9 | 27.8 | 28.6 | 29.5 | 30.4 |
| 185.....                     | 22.4                                     | 23.3 | 24.2 | 25.1 | 25.9 | 26.8 | 27.7 | 28.6 | 29.5 | 30.3 |
| 186.....                     | 22.3                                     | 23.2 | 24.1 | 25.0 | 25.9 | 26.8 | 27.6 | 28.5 | 29.4 | 30.3 |
| 187.....                     | 22.3                                     | 23.2 | 24.1 | 25.0 | 25.8 | 26.7 | 27.6 | 28.5 | 29.3 | 30.2 |
| 188.....                     | 22.2                                     | 23.1 | 24.0 | 24.9 | 25.8 | 26.6 | 27.5 | 28.4 | 29.3 | 30.1 |
| 189.....                     | 22.2                                     | 23.1 | 24.0 | 24.8 | 25.7 | 26.6 | 27.5 | 28.3 | 29.2 | 30.1 |
| 190.....                     | 22.1                                     | 23.0 | 23.9 | 24.8 | 25.7 | 26.5 | 27.4 | 28.3 | 29.1 | 30.0 |
| 191.....                     | 22.1                                     | 22.9 | 23.8 | 24.7 | 25.6 | 26.5 | 27.3 | 28.2 | 29.1 | 30.0 |
| 192.....                     | 22.0                                     | 22.9 | 23.8 | 24.7 | 25.5 | 26.4 | 27.3 | 28.2 | 29.0 | 29.9 |
| 193.....                     | 21.9                                     | 22.8 | 23.7 | 24.6 | 25.5 | 26.4 | 27.2 | 28.1 | 29.0 | 29.8 |
| 194.....                     | 21.9                                     | 22.8 | 23.7 | 24.5 | 25.4 | 26.3 | 27.2 | 28.0 | 28.9 | 29.8 |
| 195.....                     | 21.8                                     | 22.7 | 23.6 | 24.5 | 25.4 | 26.3 | 27.1 | 28.0 | 28.9 | 29.7 |

TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in °F. | Observed degrees A. P. I.                |      |      |      |      |      |      |      |      |      |
|-----------------------------|------------------------------------------|------|------|------|------|------|------|------|------|------|
|                             | 40                                       | 41   | 42   | 43   | 44   | 45   | 46   | 47   | 48   | 49   |
|                             | Corresponding degrees A. P. I. at 60° F. |      |      |      |      |      |      |      |      |      |
| 0.....                      | 45.1                                     | 46.2 | 47.3 | 48.4 | 49.5 | 50.7 | 51.8 | 52.9 | 54.1 | 55.2 |
| 1.....                      | 45.0                                     | 46.1 | 47.2 | 48.3 | 49.4 | 50.6 | 51.7 | 52.8 | 54.0 | 55.1 |
| 2.....                      | 44.9                                     | 46.0 | 47.1 | 48.2 | 49.3 | 50.5 | 51.6 | 52.7 | 53.8 | 55.0 |
| 3.....                      | 44.8                                     | 45.9 | 47.0 | 48.1 | 49.2 | 50.4 | 51.5 | 52.6 | 53.7 | 54.9 |
| 4.....                      | 44.7                                     | 45.8 | 46.9 | 48.0 | 49.1 | 50.3 | 51.4 | 52.5 | 53.6 | 54.7 |
| 5.....                      | 44.6                                     | 45.7 | 46.8 | 47.9 | 49.0 | 50.1 | 51.3 | 52.4 | 53.5 | 54.6 |
| 6.....                      | 44.5                                     | 45.6 | 46.7 | 47.8 | 48.9 | 50.0 | 51.2 | 52.3 | 53.4 | 54.5 |
| 7.....                      | 44.4                                     | 45.5 | 46.6 | 47.7 | 48.8 | 49.9 | 51.1 | 52.2 | 53.3 | 54.4 |
| 8.....                      | 44.3                                     | 45.4 | 46.5 | 47.6 | 48.7 | 49.8 | 51.0 | 52.1 | 53.2 | 54.3 |
| 9.....                      | 44.2                                     | 45.3 | 46.4 | 47.5 | 48.6 | 49.7 | 50.9 | 52.0 | 53.1 | 54.2 |
| 10.....                     | 44.1                                     | 45.2 | 46.3 | 47.4 | 48.5 | 49.6 | 50.8 | 51.9 | 53.0 | 54.1 |
| 11.....                     | 44.0                                     | 45.1 | 46.2 | 47.3 | 48.4 | 49.5 | 50.7 | 51.8 | 52.9 | 54.0 |
| 12.....                     | 43.9                                     | 45.0 | 46.1 | 47.2 | 48.3 | 49.4 | 50.5 | 51.6 | 52.8 | 53.9 |
| 13.....                     | 43.9                                     | 45.0 | 46.1 | 47.1 | 48.2 | 49.3 | 50.4 | 51.5 | 52.6 | 53.7 |
| 14.....                     | 43.8                                     | 44.9 | 46.0 | 47.0 | 48.1 | 49.2 | 50.3 | 51.4 | 52.5 | 53.6 |
| 15.....                     | 43.7                                     | 44.8 | 45.9 | 46.9 | 48.0 | 49.1 | 50.2 | 51.3 | 52.4 | 53.5 |
| 16.....                     | 43.6                                     | 44.7 | 45.8 | 46.8 | 47.9 | 49.0 | 50.1 | 51.2 | 52.3 | 53.4 |
| 17.....                     | 43.5                                     | 44.6 | 45.7 | 46.8 | 47.8 | 48.9 | 50.0 | 51.1 | 52.2 | 53.3 |
| 18.....                     | 43.4                                     | 44.5 | 45.6 | 46.7 | 47.7 | 48.8 | 49.9 | 51.0 | 52.1 | 53.2 |
| 19.....                     | 43.4                                     | 44.4 | 45.5 | 46.6 | 47.7 | 48.7 | 49.8 | 50.9 | 52.0 | 53.1 |
| 20.....                     | 43.3                                     | 44.3 | 45.4 | 46.5 | 47.6 | 48.7 | 49.7 | 50.8 | 51.9 | 53.0 |
| 21.....                     | 43.2                                     | 44.3 | 45.3 | 46.4 | 47.5 | 48.6 | 49.6 | 50.7 | 51.8 | 52.9 |
| 22.....                     | 43.1                                     | 44.2 | 45.2 | 46.3 | 47.4 | 48.5 | 49.5 | 50.6 | 51.7 | 52.8 |
| 23.....                     | 43.0                                     | 44.1 | 45.2 | 46.2 | 47.3 | 48.4 | 49.4 | 50.5 | 51.6 | 52.7 |
| 24.....                     | 42.9                                     | 44.0 | 45.1 | 46.1 | 47.2 | 48.3 | 49.3 | 50.4 | 51.5 | 52.6 |
| 25.....                     | 42.8                                     | 43.9 | 45.0 | 46.0 | 47.1 | 48.2 | 49.2 | 50.3 | 51.4 | 52.5 |
| 26.....                     | 42.8                                     | 43.8 | 44.9 | 45.9 | 47.0 | 48.1 | 49.1 | 50.2 | 51.3 | 52.4 |
| 27.....                     | 42.7                                     | 43.7 | 44.8 | 45.9 | 46.9 | 48.0 | 49.0 | 50.1 | 51.2 | 52.3 |
| 28.....                     | 42.6                                     | 43.6 | 44.7 | 45.8 | 46.8 | 47.9 | 49.0 | 50.0 | 51.1 | 52.2 |
| 29.....                     | 42.5                                     | 43.6 | 44.6 | 45.7 | 46.7 | 47.8 | 48.9 | 49.9 | 51.0 | 52.1 |
| 30.....                     | 42.4                                     | 43.5 | 44.5 | 45.6 | 46.6 | 47.7 | 48.8 | 49.8 | 50.9 | 52.0 |
| 31.....                     | 42.4                                     | 43.4 | 44.5 | 45.5 | 46.6 | 47.6 | 48.7 | 49.7 | 50.8 | 51.9 |
| 32.....                     | 42.3                                     | 43.3 | 44.4 | 45.4 | 46.5 | 47.5 | 48.6 | 49.6 | 50.7 | 51.7 |
| 33.....                     | 42.2                                     | 43.2 | 44.3 | 45.3 | 46.4 | 47.4 | 48.5 | 49.5 | 50.6 | 51.6 |
| 34.....                     | 42.1                                     | 43.1 | 44.2 | 45.2 | 46.3 | 47.3 | 48.4 | 49.4 | 50.5 | 51.5 |
| 35.....                     | 42.0                                     | 43.1 | 44.1 | 45.2 | 46.2 | 47.2 | 48.3 | 49.3 | 50.4 | 51.4 |
| 36.....                     | 41.9                                     | 43.0 | 44.0 | 45.1 | 46.1 | 47.2 | 48.2 | 49.2 | 50.3 | 51.3 |
| 37.....                     | 41.8                                     | 42.9 | 43.9 | 45.0 | 46.0 | 47.1 | 48.1 | 49.1 | 50.2 | 51.2 |
| 38.....                     | 41.8                                     | 42.8 | 43.9 | 44.9 | 45.9 | 47.0 | 48.0 | 49.0 | 50.1 | 51.1 |
| 39.....                     | 41.7                                     | 42.7 | 43.8 | 44.8 | 45.8 | 46.9 | 47.9 | 49.0 | 50.0 | 51.0 |
| 40.....                     | 41.6                                     | 42.6 | 43.7 | 44.7 | 45.7 | 46.8 | 47.8 | 48.9 | 49.9 | 50.9 |
| 41.....                     | 41.5                                     | 42.5 | 43.6 | 44.6 | 45.6 | 46.7 | 47.7 | 48.8 | 49.8 | 50.8 |
| 42.....                     | 41.4                                     | 42.5 | 43.5 | 44.5 | 45.6 | 46.6 | 47.6 | 48.7 | 49.7 | 50.8 |
| 43.....                     | 41.3                                     | 42.4 | 43.4 | 44.4 | 45.5 | 46.5 | 47.5 | 48.6 | 49.6 | 50.7 |
| 44.....                     | 41.3                                     | 42.3 | 43.3 | 44.4 | 45.4 | 46.4 | 47.5 | 48.5 | 49.5 | 50.6 |
| 45.....                     | 41.2                                     | 42.2 | 43.3 | 44.3 | 45.3 | 46.3 | 47.4 | 48.4 | 49.4 | 50.5 |
| 46.....                     | 41.1                                     | 42.1 | 43.2 | 44.2 | 45.2 | 46.2 | 47.3 | 48.3 | 49.3 | 50.4 |
| 47.....                     | 41.0                                     | 42.0 | 43.1 | 44.1 | 45.1 | 46.1 | 47.2 | 48.2 | 49.2 | 50.3 |
| 48.....                     | 41.0                                     | 42.0 | 43.0 | 44.0 | 45.0 | 46.1 | 47.1 | 48.1 | 49.1 | 50.2 |
| 49.....                     | 40.9                                     | 41.9 | 42.9 | 43.9 | 44.9 | 46.0 | 47.0 | 48.0 | 49.0 | 50.1 |

TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in °F. | Observed degrees A. P. I.                |      |      |      |      |      |      |      |      |      |
|-----------------------------|------------------------------------------|------|------|------|------|------|------|------|------|------|
|                             | 40                                       | 41   | 42   | 43   | 44   | 45   | 46   | 47   | 48   | 49   |
|                             | Corresponding degrees A. P. I. at 60° F. |      |      |      |      |      |      |      |      |      |
| 50.....                     | 40.8                                     | 41.8 | 42.8 | 43.8 | 44.8 | 45.9 | 46.9 | 47.9 | 48.9 | 50.0 |
| 51.....                     | 40.7                                     | 41.7 | 42.7 | 43.7 | 44.7 | 45.8 | 46.8 | 47.8 | 48.8 | 49.9 |
| 52.....                     | 40.6                                     | 41.6 | 42.7 | 43.7 | 44.7 | 45.7 | 46.7 | 47.7 | 48.7 | 49.8 |
| 53.....                     | 40.6                                     | 41.6 | 42.6 | 43.6 | 44.6 | 45.6 | 46.6 | 47.6 | 48.6 | 49.7 |
| 54.....                     | 40.5                                     | 41.5 | 42.5 | 43.5 | 44.5 | 45.5 | 46.5 | 47.5 | 48.5 | 49.6 |
| 55.....                     | 40.4                                     | 41.4 | 42.4 | 43.4 | 44.4 | 45.4 | 46.4 | 47.5 | 48.5 | 49.5 |
| 56.....                     | 40.3                                     | 41.3 | 42.3 | 43.3 | 44.3 | 45.4 | 46.4 | 47.4 | 48.4 | 49.4 |
| 57.....                     | 40.2                                     | 41.2 | 42.3 | 43.3 | 44.3 | 45.3 | 46.3 | 47.3 | 48.3 | 49.3 |
| 58.....                     | 40.2                                     | 41.2 | 42.2 | 43.2 | 44.2 | 45.2 | 46.2 | 47.2 | 48.2 | 49.2 |
| 59.....                     | 40.1                                     | 41.1 | 42.1 | 43.1 | 44.1 | 45.1 | 46.1 | 47.1 | 48.1 | 49.1 |
| 60.....                     | 40.0                                     | 41.0 | 42.0 | 43.0 | 44.0 | 45.0 | 46.0 | 47.0 | 48.0 | 49.0 |
| 61.....                     | 39.9                                     | 40.9 | 41.9 | 42.9 | 43.9 | 44.9 | 45.9 | 46.9 | 47.9 | 48.9 |
| 62.....                     | 39.8                                     | 40.8 | 41.9 | 42.8 | 43.8 | 44.8 | 45.8 | 46.8 | 47.8 | 48.8 |
| 63.....                     | 39.8                                     | 40.8 | 41.8 | 42.8 | 43.7 | 44.7 | 45.7 | 46.7 | 47.7 | 48.7 |
| 64.....                     | 39.7                                     | 40.7 | 41.7 | 42.7 | 43.7 | 44.6 | 45.6 | 46.6 | 47.6 | 48.6 |
| 65.....                     | 39.6                                     | 40.6 | 41.6 | 42.6 | 43.6 | 44.6 | 45.6 | 46.6 | 47.5 | 48.5 |
| 66.....                     | 39.5                                     | 40.5 | 41.5 | 42.5 | 43.5 | 44.5 | 45.5 | 46.5 | 47.5 | 48.4 |
| 67.....                     | 39.5                                     | 40.5 | 41.5 | 42.4 | 43.4 | 44.4 | 45.4 | 46.4 | 47.4 | 48.3 |
| 68.....                     | 39.4                                     | 40.4 | 41.4 | 42.3 | 43.3 | 44.3 | 45.3 | 46.3 | 47.3 | 48.2 |
| 69.....                     | 39.3                                     | 40.3 | 41.3 | 42.2 | 43.2 | 44.2 | 45.2 | 46.2 | 47.2 | 48.2 |
| 70.....                     | 39.2                                     | 40.2 | 41.2 | 42.2 | 43.2 | 44.1 | 45.1 | 46.1 | 47.1 | 48.1 |
| 71.....                     | 39.2                                     | 40.1 | 41.1 | 42.1 | 43.1 | 44.1 | 45.0 | 46.0 | 47.0 | 48.0 |
| 72.....                     | 39.1                                     | 40.1 | 41.1 | 42.0 | 43.0 | 44.0 | 45.0 | 45.9 | 46.9 | 47.9 |
| 73.....                     | 39.0                                     | 40.0 | 41.0 | 41.9 | 42.9 | 43.9 | 44.9 | 45.8 | 46.8 | 47.8 |
| 74.....                     | 38.9                                     | 39.9 | 40.9 | 41.8 | 42.8 | 43.8 | 44.8 | 45.7 | 46.7 | 47.7 |
| 75.....                     | 38.8                                     | 39.8 | 40.8 | 41.8 | 42.7 | 43.7 | 44.7 | 45.7 | 46.6 | 47.6 |
| 76.....                     | 38.8                                     | 39.7 | 40.7 | 41.7 | 42.7 | 43.6 | 44.6 | 45.6 | 46.6 | 47.5 |
| 77.....                     | 38.7                                     | 39.7 | 40.7 | 41.6 | 42.6 | 43.6 | 44.5 | 45.5 | 46.5 | 47.5 |
| 78.....                     | 38.6                                     | 39.6 | 40.6 | 41.5 | 42.5 | 43.5 | 44.4 | 45.4 | 46.4 | 47.4 |
| 79.....                     | 38.5                                     | 39.5 | 40.5 | 41.4 | 42.4 | 43.4 | 44.4 | 45.3 | 46.3 | 47.3 |
| 80.....                     | 38.4                                     | 39.4 | 40.4 | 41.3 | 42.3 | 43.3 | 44.3 | 45.2 | 46.2 | 47.2 |
| 81.....                     | 38.4                                     | 39.3 | 40.3 | 41.3 | 42.2 | 43.2 | 44.2 | 45.1 | 46.1 | 47.1 |
| 82.....                     | 38.3                                     | 39.3 | 40.3 | 41.2 | 42.2 | 43.1 | 44.1 | 45.1 | 46.0 | 47.0 |
| 83.....                     | 38.2                                     | 39.2 | 40.2 | 41.1 | 42.1 | 43.1 | 44.0 | 45.0 | 46.0 | 46.9 |
| 84.....                     | 38.1                                     | 39.1 | 40.1 | 41.0 | 42.0 | 43.0 | 43.9 | 44.9 | 45.9 | 46.8 |
| 85.....                     | 38.1                                     | 39.0 | 40.0 | 41.0 | 41.9 | 42.9 | 43.8 | 44.8 | 45.8 | 46.7 |
| 86.....                     | 38.0                                     | 38.9 | 39.9 | 40.9 | 41.8 | 42.8 | 43.7 | 44.7 | 45.7 | 46.6 |
| 87.....                     | 37.9                                     | 38.9 | 39.9 | 40.8 | 41.8 | 42.7 | 43.7 | 44.6 | 45.6 | 46.6 |
| 88.....                     | 37.9                                     | 38.8 | 39.8 | 40.7 | 41.7 | 42.6 | 43.6 | 44.5 | 45.5 | 46.5 |
| 89.....                     | 37.8                                     | 38.7 | 39.7 | 40.6 | 41.6 | 42.5 | 43.5 | 44.5 | 45.4 | 46.4 |
| 90.....                     | 37.7                                     | 38.7 | 39.6 | 40.6 | 41.5 | 42.5 | 43.4 | 44.4 | 45.4 | 46.3 |
| 91.....                     | 37.6                                     | 38.6 | 39.5 | 40.5 | 41.4 | 42.4 | 43.3 | 44.3 | 45.3 | 46.2 |
| 92.....                     | 37.6                                     | 38.5 | 39.5 | 40.4 | 41.4 | 42.3 | 43.3 | 44.2 | 45.2 | 46.1 |
| 93.....                     | 37.5                                     | 38.4 | 39.4 | 40.3 | 41.3 | 42.2 | 43.2 | 44.1 | 45.1 | 46.0 |
| 94.....                     | 37.4                                     | 38.4 | 39.3 | 40.3 | 41.2 | 42.2 | 43.1 | 44.1 | 45.0 | 46.0 |
| 95.....                     | 37.3                                     | 38.3 | 39.2 | 40.2 | 41.1 | 42.1 | 43.0 | 44.0 | 44.9 | 45.9 |
| 96.....                     | 37.3                                     | 38.2 | 39.2 | 40.1 | 41.1 | 42.0 | 43.0 | 43.9 | 44.8 | 45.8 |
| 97.....                     | 37.2                                     | 38.2 | 39.1 | 40.1 | 41.0 | 41.9 | 42.9 | 43.8 | 44.8 | 45.7 |
| 98.....                     | 37.1                                     | 38.1 | 39.0 | 40.0 | 40.9 | 41.9 | 42.8 | 43.7 | 44.7 | 45.6 |
| 99.....                     | 37.1                                     | 38.0 | 39.0 | 39.9 | 40.8 | 41.8 | 42.7 | 43.7 | 44.6 | 45.6 |



TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in °F. | Observed degrees A. P. I.                |      |      |      |      |      |      |      |      |      |
|-----------------------------|------------------------------------------|------|------|------|------|------|------|------|------|------|
|                             | 40                                       | 41   | 42   | 43   | 44   | 45   | 46   | 47   | 48   | 49   |
|                             | Corresponding degrees A. P. I. at 60° F. |      |      |      |      |      |      |      |      |      |
| 100.....                    | 37.0                                     | 37.9 | 38.9 | 39.8 | 40.7 | 41.7 | 42.6 | 43.6 | 44.5 | 45.5 |
| 101.....                    | 36.9                                     | 37.9 | 38.8 | 39.7 | 40.7 | 41.6 | 42.5 | 43.5 | 44.4 | 45.4 |
| 102.....                    | 36.8                                     | 37.8 | 38.7 | 39.7 | 40.6 | 41.5 | 42.5 | 43.4 | 44.3 | 45.3 |
| 103.....                    | 36.7                                     | 37.7 | 38.6 | 39.6 | 40.5 | 41.5 | 42.4 | 43.3 | 44.3 | 45.2 |
| 104.....                    | 36.7                                     | 37.6 | 38.6 | 39.5 | 40.4 | 41.4 | 42.3 | 43.3 | 44.2 | 45.1 |
| 105.....                    | 36.6                                     | 37.6 | 38.5 | 39.4 | 40.4 | 41.3 | 42.2 | 43.2 | 44.1 | 45.0 |
| 106.....                    | 36.5                                     | 37.5 | 38.4 | 39.3 | 40.3 | 41.2 | 42.1 | 43.1 | 44.0 | 44.9 |
| 107.....                    | 36.5                                     | 37.4 | 38.4 | 39.3 | 40.2 | 41.2 | 42.1 | 43.0 | 43.9 | 44.8 |
| 108.....                    | 36.4                                     | 37.3 | 38.3 | 39.2 | 40.1 | 41.1 | 42.0 | 42.9 | 43.8 | 44.8 |
| 109.....                    | 36.3                                     | 37.3 | 38.2 | 39.1 | 40.1 | 41.0 | 41.9 | 42.8 | 43.7 | 44.7 |
| 110.....                    | 36.2                                     | 37.2 | 38.1 | 39.0 | 40.0 | 40.9 | 41.8 | 42.8 | 43.7 | 44.6 |
| 111.....                    | 36.2                                     | 37.1 | 38.1 | 39.0 | 39.9 | 40.8 | 41.8 | 42.7 | 43.6 | 44.5 |
| 112.....                    | 36.1                                     | 37.0 | 38.0 | 38.9 | 39.8 | 40.8 | 41.7 | 42.6 | 43.5 | 44.4 |
| 113.....                    | 36.0                                     | 36.9 | 37.9 | 38.8 | 39.7 | 40.7 | 41.6 | 42.5 | 43.4 | 44.4 |
| 114.....                    | 36.0                                     | 36.9 | 37.8 | 38.8 | 39.7 | 40.6 | 41.5 | 42.4 | 43.3 | 44.3 |
| 115.....                    | 35.9                                     | 36.8 | 37.8 | 38.7 | 39.6 | 40.5 | 41.4 | 42.4 | 43.3 | 44.2 |
| 116.....                    | 35.8                                     | 36.7 | 37.7 | 38.6 | 39.5 | 40.4 | 41.3 | 42.3 | 43.2 | 44.1 |
| 117.....                    | 35.7                                     | 36.7 | 37.6 | 38.5 | 39.4 | 40.4 | 41.3 | 42.2 | 43.1 | 44.0 |
| 118.....                    | 35.7                                     | 36.6 | 37.5 | 38.4 | 39.4 | 40.3 | 41.2 | 42.1 | 43.0 | 44.0 |
| 119.....                    | 35.6                                     | 36.5 | 37.5 | 38.4 | 39.3 | 40.2 | 41.1 | 42.1 | 43.0 | 43.9 |
| 120.....                    | 35.5                                     | 36.5 | 37.4 | 38.3 | 39.2 | 40.2 | 41.1 | 42.0 | 42.9 | 43.8 |
| 121.....                    | 35.5                                     | 36.4 | 37.3 | 38.2 | 39.1 | 40.1 | 41.0 | 41.9 | 42.8 | 43.7 |
| 122.....                    | 35.4                                     | 36.3 | 37.2 | 38.1 | 39.1 | 40.0 | 40.9 | 41.8 | 42.7 | 43.6 |
| 123.....                    | 35.3                                     | 36.2 | 37.2 | 38.1 | 39.0 | 39.9 | 40.8 | 41.7 | 42.6 | 43.6 |
| 124.....                    | 35.3                                     | 36.2 | 37.1 | 38.0 | 38.9 | 39.8 | 40.7 | 41.6 | 42.5 | 43.5 |
| 125.....                    | 35.2                                     | 36.1 | 37.0 | 37.9 | 38.9 | 39.8 | 40.7 | 41.6 | 42.5 | 43.4 |
| 126.....                    | 35.1                                     | 36.0 | 37.0 | 37.9 | 38.8 | 39.7 | 40.6 | 41.5 | 42.4 | 43.3 |
| 127.....                    | 35.1                                     | 36.0 | 36.9 | 37.8 | 38.7 | 39.6 | 40.5 | 41.4 | 42.3 | 43.3 |
| 128.....                    | 35.0                                     | 35.9 | 36.8 | 37.7 | 38.6 | 39.6 | 40.5 | 41.4 | 42.3 | 43.2 |
| 129.....                    | 34.9                                     | 35.8 | 36.7 | 37.7 | 38.6 | 39.5 | 40.4 | 41.3 | 42.2 | 43.1 |
| 130.....                    | 34.8                                     | 35.8 | 36.7 | 37.6 | 38.5 | 39.4 | 40.3 | 41.2 | 42.1 | 43.0 |
| 131.....                    | 34.8                                     | 35.7 | 36.6 | 37.5 | 38.4 | 39.3 | 40.2 | 41.1 | 42.0 | 42.9 |
| 132.....                    | 34.7                                     | 35.6 | 36.5 | 37.4 | 38.4 | 39.3 | 40.2 | 41.1 | 42.0 | 42.9 |
| 133.....                    | 34.6                                     | 35.6 | 36.5 | 37.4 | 38.3 | 39.2 | 40.1 | 41.0 | 41.9 | 42.8 |
| 134.....                    | 34.6                                     | 35.5 | 36.4 | 37.3 | 38.2 | 39.1 | 40.0 | 40.9 | 41.8 | 42.7 |
| 135.....                    | 34.5                                     | 35.4 | 36.3 | 37.2 | 38.1 | 39.0 | 39.9 | 40.8 | 41.7 | 42.6 |
| 136.....                    | 34.5                                     | 35.4 | 36.3 | 37.2 | 38.1 | 39.0 | 39.9 | 40.7 | 41.6 | 42.5 |
| 137.....                    | 34.4                                     | 35.3 | 36.2 | 37.1 | 38.0 | 38.9 | 39.8 | 40.7 | 41.5 | 42.4 |
| 138.....                    | 34.3                                     | 35.2 | 36.1 | 37.0 | 37.9 | 38.8 | 39.7 | 40.6 | 41.5 | 42.4 |
| 139.....                    | 34.2                                     | 35.1 | 36.0 | 36.9 | 37.8 | 38.7 | 39.6 | 40.5 | 41.4 | 42.3 |
| 140.....                    | 34.2                                     | 35.1 | 36.0 | 36.9 | 37.8 | 38.7 | 39.5 | 40.4 | 41.3 | 42.2 |
| 141.....                    | 34.1                                     | 35.0 | 35.9 | 36.8 | 37.7 | 38.6 | 39.5 | 40.4 | 41.2 | 42.1 |
| 142.....                    | 34.0                                     | 34.9 | 35.8 | 36.7 | 37.6 | 38.5 | 39.4 | 40.3 | 41.2 | 42.1 |
| 143.....                    | 34.0                                     | 34.9 | 35.8 | 36.6 | 37.5 | 38.4 | 39.3 | 40.2 | 41.1 | 42.0 |
| 144.....                    | 33.9                                     | 34.8 | 35.7 | 36.6 | 37.5 | 38.3 | 39.2 | 40.1 | 41.0 | 41.9 |
| 145.....                    | 33.8                                     | 34.7 | 35.6 | 36.5 | 37.4 | 38.3 | 39.2 | 40.1 | 40.9 | 41.8 |
| 146.....                    | 33.8                                     | 34.7 | 35.6 | 36.4 | 37.3 | 38.2 | 39.1 | 40.0 | 40.9 | 41.8 |
| 147.....                    | 33.7                                     | 34.6 | 35.5 | 36.3 | 37.2 | 38.1 | 39.0 | 39.9 | 40.8 | 41.7 |
| 148.....                    | 33.6                                     | 34.5 | 35.4 | 36.3 | 37.2 | 38.1 | 39.0 | 39.8 | 40.7 | 41.6 |
| 149.....                    | 33.6                                     | 34.5 | 35.4 | 36.2 | 37.1 | 38.0 | 38.9 | 39.8 | 40.6 | 41.5 |
| 150.....                    | 33.5                                     | 34.4 | 35.3 | 36.1 | 37.0 | 37.9 | 38.8 | 39.7 | 40.6 | 41.5 |



TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in °F. | Observed degrees A. P. I.                |      |      |      |      |      |      |      |      |      |
|-----------------------------|------------------------------------------|------|------|------|------|------|------|------|------|------|
|                             | 50                                       | 51   | 52   | 53   | 54   | 55   | 56   | 57   | 58   | 59   |
|                             | Corresponding degrees A. P. I. at 60° F. |      |      |      |      |      |      |      |      |      |
| 0.....                      | 56.3                                     | 57.5 | 58.6 | 59.7 | 60.8 | 61.9 | 63.1 | 64.2 | 65.3 | 66.4 |
| 1.....                      | 56.2                                     | 57.4 | 58.5 | 59.6 | 60.7 | 61.8 | 62.9 | 64.0 | 65.2 | 66.3 |
| 2.....                      | 56.1                                     | 57.2 | 58.4 | 59.5 | 60.6 | 61.7 | 62.8 | 63.9 | 65.0 | 66.2 |
| 3.....                      | 56.0                                     | 57.1 | 58.2 | 59.3 | 60.4 | 61.5 | 62.6 | 63.8 | 64.9 | 66.0 |
| 4.....                      | 55.8                                     | 57.0 | 58.1 | 59.2 | 60.3 | 61.4 | 62.5 | 63.6 | 64.8 | 65.9 |
| 5.....                      | 55.7                                     | 56.9 | 58.0 | 59.1 | 60.2 | 61.3 | 62.4 | 63.5 | 64.6 | 65.8 |
| 6.....                      | 55.6                                     | 56.8 | 57.9 | 59.0 | 60.1 | 61.2 | 62.3 | 63.4 | 64.5 | 65.6 |
| 7.....                      | 55.5                                     | 56.6 | 57.7 | 58.8 | 59.9 | 61.0 | 62.2 | 63.3 | 64.4 | 65.5 |
| 8.....                      | 55.4                                     | 56.5 | 57.6 | 58.7 | 59.8 | 60.9 | 62.0 | 63.1 | 64.2 | 65.4 |
| 9.....                      | 55.3                                     | 56.4 | 57.5 | 58.6 | 59.7 | 60.8 | 61.9 | 63.0 | 64.1 | 65.2 |
| 10.....                     | 55.2                                     | 56.3 | 57.4 | 58.5 | 59.6 | 60.7 | 61.8 | 62.9 | 64.0 | 65.1 |
| 11.....                     | 55.1                                     | 56.2 | 57.3 | 58.4 | 59.5 | 60.6 | 61.7 | 62.8 | 63.9 | 65.0 |
| 12.....                     | 55.0                                     | 56.1 | 57.2 | 58.3 | 59.4 | 60.4 | 61.5 | 62.6 | 63.7 | 64.8 |
| 13.....                     | 54.8                                     | 55.9 | 57.0 | 58.1 | 59.2 | 60.3 | 61.4 | 62.5 | 63.6 | 64.7 |
| 14.....                     | 54.7                                     | 55.8 | 56.9 | 58.0 | 59.1 | 60.2 | 61.3 | 62.4 | 63.5 | 64.6 |
| 15.....                     | 54.6                                     | 55.7 | 56.8 | 57.9 | 59.0 | 60.1 | 61.2 | 62.3 | 63.4 | 64.4 |
| 16.....                     | 54.5                                     | 55.6 | 56.7 | 57.8 | 58.9 | 59.9 | 61.0 | 62.1 | 63.2 | 64.3 |
| 17.....                     | 54.4                                     | 55.5 | 56.6 | 57.6 | 58.7 | 59.8 | 60.9 | 62.0 | 63.1 | 64.2 |
| 18.....                     | 54.3                                     | 55.4 | 56.5 | 57.5 | 58.6 | 59.7 | 60.8 | 61.9 | 63.0 | 64.0 |
| 19.....                     | 54.2                                     | 55.3 | 56.3 | 57.4 | 58.5 | 59.6 | 60.7 | 61.8 | 62.8 | 63.9 |
| 20.....                     | 54.1                                     | 55.2 | 56.2 | 57.3 | 58.4 | 59.5 | 60.5 | 61.6 | 62.7 | 63.8 |
| 21.....                     | 54.0                                     | 55.1 | 56.1 | 57.2 | 58.3 | 59.4 | 60.4 | 61.5 | 62.6 | 63.7 |
| 22.....                     | 53.9                                     | 54.9 | 56.0 | 57.1 | 58.2 | 59.2 | 60.3 | 61.4 | 62.5 | 63.5 |
| 23.....                     | 53.8                                     | 54.8 | 55.9 | 57.0 | 58.0 | 59.1 | 60.2 | 61.3 | 62.4 | 63.4 |
| 24.....                     | 53.6                                     | 54.7 | 55.8 | 56.9 | 57.9 | 59.0 | 60.1 | 61.2 | 62.2 | 63.3 |
| 25.....                     | 53.5                                     | 54.6 | 55.7 | 56.8 | 57.8 | 58.9 | 60.0 | 61.0 | 62.1 | 63.2 |
| 26.....                     | 53.4                                     | 54.5 | 55.6 | 56.6 | 57.7 | 58.8 | 59.8 | 60.9 | 62.0 | 63.0 |
| 27.....                     | 53.3                                     | 54.4 | 55.5 | 56.5 | 57.6 | 58.7 | 59.7 | 60.8 | 61.9 | 62.9 |
| 28.....                     | 53.2                                     | 54.3 | 55.4 | 56.4 | 57.5 | 58.5 | 59.6 | 60.7 | 61.8 | 62.8 |
| 29.....                     | 53.1                                     | 54.2 | 55.3 | 56.3 | 57.4 | 58.4 | 59.5 | 60.5 | 61.6 | 62.6 |
| 30.....                     | 53.0                                     | 54.1 | 55.1 | 56.2 | 57.2 | 58.3 | 59.4 | 60.4 | 61.5 | 62.5 |
| 31.....                     | 52.9                                     | 54.0 | 55.0 | 56.1 | 57.1 | 58.2 | 59.3 | 60.3 | 61.4 | 62.4 |
| 32.....                     | 52.8                                     | 53.9 | 54.9 | 56.0 | 57.0 | 58.1 | 59.2 | 60.2 | 61.3 | 62.3 |
| 33.....                     | 52.7                                     | 53.8 | 54.8 | 55.9 | 56.9 | 58.0 | 59.0 | 60.1 | 61.2 | 62.2 |
| 34.....                     | 52.6                                     | 53.7 | 54.7 | 55.8 | 56.8 | 57.8 | 58.9 | 59.9 | 61.0 | 62.0 |
| 35.....                     | 52.5                                     | 53.5 | 54.6 | 55.6 | 56.7 | 57.7 | 58.8 | 59.8 | 60.9 | 61.9 |
| 36.....                     | 52.4                                     | 53.4 | 54.5 | 55.5 | 56.6 | 57.6 | 58.7 | 59.7 | 60.8 | 61.8 |
| 37.....                     | 52.3                                     | 53.3 | 54.4 | 55.4 | 56.5 | 57.5 | 58.6 | 59.6 | 60.7 | 61.7 |
| 38.....                     | 52.2                                     | 53.2 | 54.3 | 55.3 | 56.4 | 57.4 | 58.4 | 59.5 | 60.5 | 61.6 |
| 39.....                     | 52.1                                     | 53.1 | 54.2 | 55.2 | 56.2 | 57.3 | 58.3 | 59.4 | 60.4 | 61.5 |
| 40.....                     | 52.0                                     | 53.0 | 54.1 | 55.1 | 56.1 | 57.2 | 58.2 | 59.2 | 60.3 | 61.3 |
| 41.....                     | 51.9                                     | 52.9 | 54.0 | 55.0 | 56.0 | 57.1 | 58.1 | 59.1 | 60.2 | 61.2 |
| 42.....                     | 51.8                                     | 52.8 | 53.8 | 54.9 | 55.9 | 56.9 | 58.0 | 59.0 | 60.1 | 61.1 |
| 43.....                     | 51.7                                     | 52.7 | 53.7 | 54.8 | 55.8 | 56.8 | 57.9 | 58.9 | 59.9 | 61.0 |
| 44.....                     | 51.6                                     | 52.6 | 53.6 | 54.7 | 55.7 | 56.7 | 57.8 | 58.8 | 59.8 | 60.9 |
| 45.....                     | 51.5                                     | 52.5 | 53.5 | 54.6 | 55.6 | 56.6 | 57.6 | 58.7 | 59.7 | 60.7 |
| 46.....                     | 51.4                                     | 52.4 | 53.4 | 54.5 | 55.5 | 56.5 | 57.5 | 58.6 | 59.6 | 60.6 |
| 47.....                     | 51.3                                     | 52.3 | 53.3 | 54.3 | 55.4 | 56.4 | 57.4 | 58.4 | 59.5 | 60.5 |
| 48.....                     | 51.2                                     | 52.2 | 53.2 | 54.2 | 55.3 | 56.3 | 57.3 | 58.3 | 59.3 | 60.4 |
| 49.....                     | 51.1                                     | 52.1 | 53.1 | 54.1 | 55.2 | 56.2 | 57.2 | 58.2 | 59.2 | 60.3 |
| 50.....                     | 51.0                                     | 52.0 | 53.0 | 54.0 | 55.1 | 56.1 | 57.1 | 58.1 | 59.1 | 60.2 |
| 51.....                     | 50.9                                     | 51.9 | 52.9 | 53.9 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.1 |
| 52.....                     | 50.8                                     | 51.8 | 52.8 | 53.8 | 54.9 | 55.9 | 56.9 | 57.9 | 58.9 | 59.9 |
| 53.....                     | 50.7                                     | 51.7 | 52.7 | 53.7 | 54.7 | 55.7 | 56.7 | 57.8 | 58.8 | 59.8 |
| 54.....                     | 50.6                                     | 51.6 | 52.6 | 53.6 | 54.6 | 55.6 | 56.6 | 57.6 | 58.6 | 59.7 |
| 55.....                     | 50.5                                     | 51.5 | 52.5 | 53.5 | 54.5 | 55.5 | 56.5 | 57.5 | 58.5 | 59.6 |
| 56.....                     | 50.4                                     | 51.4 | 52.4 | 53.4 | 54.4 | 55.4 | 56.4 | 57.4 | 58.4 | 59.4 |
| 57.....                     | 50.3                                     | 51.3 | 52.3 | 53.3 | 54.3 | 55.3 | 56.3 | 57.3 | 58.3 | 59.3 |
| 58.....                     | 50.2                                     | 51.2 | 52.2 | 53.2 | 54.2 | 55.2 | 56.2 | 57.2 | 58.2 | 59.2 |
| 59.....                     | 50.1                                     | 51.1 | 52.1 | 53.1 | 54.1 | 55.1 | 56.1 | 57.1 | 58.1 | 59.1 |
| 60.....                     | 50.0                                     | 51.0 | 52.0 | 53.0 | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 |
| 61.....                     | 49.9                                     | 50.9 | 51.9 | 52.9 | 53.9 | 54.9 | 55.9 | 56.9 | 57.9 | 58.9 |
| 62.....                     | 49.8                                     | 50.8 | 51.8 | 52.8 | 53.8 | 54.8 | 55.8 | 56.8 | 57.8 | 58.8 |
| 63.....                     | 49.7                                     | 50.7 | 51.7 | 52.7 | 53.7 | 54.7 | 55.7 | 56.6 | 57.6 | 58.6 |
| 64.....                     | 49.6                                     | 50.6 | 51.6 | 52.6 | 53.6 | 54.6 | 55.6 | 56.5 | 57.5 | 58.5 |

TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in °F. | Observed degrees A. P. I.                |      |      |      |      |      |      |      |      |      |
|-----------------------------|------------------------------------------|------|------|------|------|------|------|------|------|------|
|                             | 50                                       | 51   | 52   | 53   | 54   | 55   | 56   | 57   | 58   | 59   |
|                             | Corresponding degrees A. P. I. at 60° F. |      |      |      |      |      |      |      |      |      |
| 65.....                     | 49.5                                     | 50.5 | 51.5 | 52.5 | 53.5 | 54.5 | 55.4 | 56.4 | 57.4 | 58.4 |
| 66.....                     | 49.4                                     | 50.4 | 51.4 | 52.4 | 53.4 | 54.4 | 55.3 | 56.3 | 57.3 | 58.3 |
| 67.....                     | 49.3                                     | 50.3 | 51.3 | 52.3 | 53.3 | 54.3 | 55.2 | 56.2 | 57.2 | 58.2 |
| 68.....                     | 49.2                                     | 50.2 | 51.2 | 52.2 | 53.2 | 54.2 | 55.1 | 56.1 | 57.1 | 58.1 |
| 69.....                     | 49.1                                     | 50.1 | 51.1 | 52.1 | 53.1 | 54.1 | 55.0 | 56.0 | 57.0 | 58.0 |
| 70.....                     | 49.0                                     | 50.0 | 51.0 | 52.0 | 53.0 | 54.0 | 54.9 | 55.9 | 56.9 | 57.9 |
| 71.....                     | 49.0                                     | 50.0 | 50.9 | 51.9 | 52.9 | 53.9 | 54.8 | 55.8 | 56.8 | 57.8 |
| 72.....                     | 48.9                                     | 49.9 | 50.8 | 51.8 | 52.8 | 53.8 | 54.7 | 55.7 | 56.7 | 57.7 |
| 73.....                     | 48.8                                     | 49.8 | 50.7 | 51.7 | 52.7 | 53.7 | 54.6 | 55.6 | 56.6 | 57.6 |
| 74.....                     | 48.7                                     | 49.7 | 50.6 | 51.6 | 52.6 | 53.6 | 54.5 | 55.5 | 56.5 | 57.4 |
| 75.....                     | 48.6                                     | 49.6 | 50.5 | 51.5 | 52.5 | 53.5 | 54.4 | 55.4 | 56.4 | 57.3 |
| 76.....                     | 48.5                                     | 49.5 | 50.4 | 51.4 | 52.4 | 53.4 | 54.3 | 55.3 | 56.3 | 57.2 |
| 77.....                     | 48.4                                     | 49.4 | 50.4 | 51.3 | 52.3 | 53.3 | 54.2 | 55.2 | 56.1 | 57.1 |
| 78.....                     | 48.3                                     | 49.3 | 50.3 | 51.2 | 52.2 | 53.2 | 54.1 | 55.1 | 56.0 | 57.0 |
| 79.....                     | 48.2                                     | 49.2 | 50.2 | 51.1 | 52.1 | 53.1 | 54.0 | 55.0 | 55.9 | 56.9 |
| 80.....                     | 48.1                                     | 49.1 | 50.1 | 51.0 | 52.0 | 53.0 | 53.9 | 54.9 | 55.8 | 56.8 |
| 81.....                     | 48.0                                     | 49.0 | 50.0 | 50.9 | 51.9 | 52.9 | 53.8 | 54.8 | 55.7 | 56.7 |
| 82.....                     | 48.0                                     | 48.9 | 49.9 | 50.8 | 51.8 | 52.8 | 53.7 | 54.7 | 55.6 | 56.6 |
| 83.....                     | 47.9                                     | 48.8 | 49.8 | 50.8 | 51.7 | 52.7 | 53.6 | 54.6 | 55.5 | 56.5 |
| 84.....                     | 47.8                                     | 48.8 | 49.7 | 50.7 | 51.6 | 52.6 | 53.5 | 54.5 | 55.4 | 56.4 |
| 85.....                     | 47.7                                     | 48.7 | 49.6 | 50.6 | 51.5 | 52.5 | 53.4 | 54.4 | 55.3 | 56.3 |
| 86.....                     | 47.6                                     | 48.6 | 49.5 | 50.5 | 51.4 | 52.4 | 53.3 | 54.2 | 55.2 | 56.1 |
| 87.....                     | 47.5                                     | 48.5 | 49.4 | 50.4 | 51.3 | 52.3 | 53.2 | 54.1 | 55.1 | 56.0 |
| 88.....                     | 47.4                                     | 48.4 | 49.3 | 50.3 | 51.2 | 52.2 | 53.1 | 54.0 | 55.0 | 55.9 |
| 89.....                     | 47.3                                     | 48.3 | 49.2 | 50.2 | 51.1 | 52.1 | 53.0 | 53.9 | 54.9 | 55.8 |
| 90.....                     | 47.2                                     | 48.2 | 49.1 | 50.1 | 51.0 | 52.0 | 52.9 | 53.8 | 54.8 | 55.7 |
| 91.....                     | 47.2                                     | 48.1 | 49.0 | 50.0 | 50.9 | 51.9 | 52.8 | 53.7 | 54.7 | 55.6 |
| 92.....                     | 47.1                                     | 48.0 | 48.9 | 49.9 | 50.8 | 51.8 | 52.7 | 53.6 | 54.6 | 55.5 |
| 93.....                     | 47.0                                     | 47.9 | 48.8 | 49.8 | 50.7 | 51.7 | 52.6 | 53.5 | 54.5 | 55.4 |
| 94.....                     | 46.9                                     | 47.8 | 48.8 | 49.7 | 50.7 | 51.6 | 52.5 | 53.4 | 54.4 | 55.3 |
| 95.....                     | 46.8                                     | 47.8 | 48.7 | 49.6 | 50.6 | 51.5 | 52.4 | 53.3 | 54.3 | 55.2 |
| 96.....                     | 46.7                                     | 47.7 | 48.6 | 49.5 | 50.5 | 51.4 | 52.3 | 53.2 | 54.2 | 55.1 |
| 97.....                     | 46.6                                     | 47.6 | 48.5 | 49.4 | 50.4 | 51.3 | 52.2 | 53.1 | 54.1 | 55.0 |
| 98.....                     | 46.6                                     | 47.5 | 48.4 | 49.4 | 50.3 | 51.2 | 52.1 | 53.0 | 54.0 | 54.9 |
| 99.....                     | 46.5                                     | 47.4 | 48.3 | 49.3 | 50.2 | 51.1 | 52.0 | 52.9 | 53.9 | 54.8 |
| 100.....                    | 46.4                                     | 47.3 | 48.2 | 49.2 | 50.1 | 51.0 | 51.9 | 52.8 | 53.8 | 54.7 |
| 101.....                    | 46.3                                     | 47.2 | 48.1 | 49.1 | 50.0 | 50.9 | 51.8 | 52.7 | 53.7 | 54.6 |
| 102.....                    | 46.2                                     | 47.1 | 48.0 | 49.0 | 49.9 | 50.8 | 51.7 | 52.6 | 53.6 | 54.5 |
| 103.....                    | 46.1                                     | 47.0 | 48.0 | 48.9 | 49.8 | 50.7 | 51.6 | 52.5 | 53.5 | 54.4 |
| 104.....                    | 46.0                                     | 47.0 | 47.9 | 48.8 | 49.7 | 50.6 | 51.5 | 52.4 | 53.4 | 54.3 |
| 105.....                    | 46.0                                     | 46.9 | 47.8 | 48.7 | 49.6 | 50.5 | 51.4 | 52.3 | 53.3 | 54.2 |
| 106.....                    | 45.9                                     | 46.8 | 47.7 | 48.6 | 49.5 | 50.4 | 51.3 | 52.2 | 53.2 | 54.1 |
| 107.....                    | 45.8                                     | 46.7 | 47.6 | 48.5 | 49.4 | 50.4 | 51.3 | 52.2 | 53.1 | 54.0 |
| 108.....                    | 45.7                                     | 46.6 | 47.5 | 48.4 | 49.3 | 50.3 | 51.2 | 52.1 | 53.0 | 53.9 |
| 109.....                    | 45.6                                     | 46.5 | 47.4 | 48.3 | 49.2 | 50.2 | 51.1 | 52.0 | 52.9 | 53.8 |
| 110.....                    | 45.5                                     | 46.4 | 47.3 | 48.2 | 49.2 | 50.1 | 51.0 | 51.9 | 52.8 | 53.7 |
| 111.....                    | 45.4                                     | 46.4 | 47.3 | 48.2 | 49.1 | 50.0 | 50.9 | 51.8 | 52.7 | 53.6 |
| 112.....                    | 45.4                                     | 46.3 | 47.2 | 48.1 | 49.0 | 49.9 | 50.8 | 51.7 | 52.6 | 53.5 |
| 113.....                    | 45.3                                     | 46.2 | 47.1 | 48.0 | 48.9 | 49.8 | 50.7 | 51.6 | 52.5 | 53.4 |
| 114.....                    | 45.2                                     | 46.1 | 47.0 | 47.9 | 48.8 | 49.7 | 50.6 | 51.5 | 52.4 | 53.3 |
| 115.....                    | 45.1                                     | 46.0 | 46.9 | 47.8 | 48.7 | 49.6 | 50.5 | 51.4 | 52.3 | 53.2 |
| 116.....                    | 45.0                                     | 45.9 | 46.8 | 47.7 | 48.6 | 49.5 | 50.4 | 51.3 | 52.2 | 53.1 |
| 117.....                    | 45.0                                     | 45.8 | 46.7 | 47.6 | 48.5 | 49.4 | 50.3 | 51.2 | 52.1 | 53.0 |
| 118.....                    | 44.9                                     | 45.8 | 46.7 | 47.6 | 48.5 | 49.4 | 50.2 | 51.1 | 52.0 | 52.9 |
| 119.....                    | 44.8                                     | 45.7 | 46.6 | 47.5 | 48.4 | 49.3 | 50.1 | 51.0 | 51.9 | 52.8 |
| 120.....                    | 44.7                                     | 45.6 | 46.5 | 47.4 | 48.3 | 49.2 | 50.0 | 50.9 | 51.8 | 52.7 |
| 121.....                    | 44.6                                     | 45.5 | 46.4 | 47.3 | 48.2 | 49.1 | 50.0 | 50.8 | 51.7 | 52.6 |
| 122.....                    | 44.5                                     | 45.4 | 46.3 | 47.2 | 48.1 | 49.0 | 49.9 | 50.8 | 51.6 | 52.5 |
| 123.....                    | 44.5                                     | 45.4 | 46.2 | 47.1 | 48.0 | 48.9 | 49.8 | 50.7 | 51.6 | 52.4 |
| 124.....                    | 44.4                                     | 45.3 | 46.2 | 47.0 | 47.9 | 48.8 | 49.7 | 50.6 | 51.5 | 52.3 |
| 125.....                    | 44.3                                     | 45.2 | 46.1 | 47.0 | 47.8 | 48.7 | 49.6 | 50.5 | 51.4 | 52.2 |

TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in °F. | Observed degrees A. P. I.                |      |      |      |      |      |      |      |      |      |
|-----------------------------|------------------------------------------|------|------|------|------|------|------|------|------|------|
|                             | 60                                       | 61   | 62   | 63   | 64   | 65   | 66   | 67   | 68   | 69   |
|                             | Corresponding degrees A. P. I. at 60° F. |      |      |      |      |      |      |      |      |      |
| 0.....                      | 67.6                                     | 68.7 | 69.8 | 70.9 | 72.0 | 73.2 | 74.3 | 75.5 | 76.6 | 77.7 |
| 1.....                      | 67.4                                     | 68.5 | 69.7 | 70.8 | 71.9 | 73.0 | 74.1 | 75.3 | 76.4 | 77.6 |
| 2.....                      | 67.3                                     | 68.4 | 69.5 | 70.6 | 71.7 | 72.9 | 74.0 | 75.2 | 76.3 | 77.4 |
| 3.....                      | 67.1                                     | 68.2 | 69.4 | 70.5 | 71.6 | 72.7 | 73.8 | 75.0 | 76.1 | 77.3 |
| 4.....                      | 67.0                                     | 68.1 | 69.2 | 70.4 | 71.5 | 72.6 | 73.7 | 74.9 | 76.0 | 77.1 |
| 5.....                      | 66.9                                     | 68.0 | 69.1 | 70.2 | 71.3 | 72.4 | 73.5 | 74.7 | 75.8 | 77.0 |
| 6.....                      | 66.7                                     | 67.9 | 69.0 | 70.1 | 71.2 | 72.3 | 73.4 | 74.6 | 75.7 | 76.8 |
| 7.....                      | 66.6                                     | 67.7 | 68.8 | 70.0 | 71.0 | 72.2 | 73.3 | 74.4 | 75.5 | 76.6 |
| 8.....                      | 66.5                                     | 67.6 | 68.7 | 69.8 | 70.9 | 72.0 | 73.1 | 74.3 | 75.4 | 76.5 |
| 9.....                      | 66.3                                     | 67.4 | 68.6 | 69.7 | 70.8 | 71.9 | 73.0 | 74.1 | 75.2 | 76.3 |
| 10.....                     | 66.2                                     | 67.3 | 68.4 | 69.5 | 70.6 | 71.7 | 72.8 | 74.0 | 75.1 | 76.2 |
| 11.....                     | 66.0                                     | 67.2 | 68.3 | 69.4 | 70.5 | 71.6 | 72.7 | 73.8 | 74.9 | 76.0 |
| 12.....                     | 65.9                                     | 67.0 | 68.1 | 69.2 | 70.3 | 71.4 | 72.5 | 73.7 | 74.8 | 75.9 |
| 13.....                     | 65.8                                     | 66.9 | 68.0 | 69.1 | 70.2 | 71.3 | 72.4 | 73.5 | 74.6 | 75.7 |
| 14.....                     | 65.7                                     | 66.8 | 67.9 | 69.0 | 70.1 | 71.2 | 72.3 | 73.4 | 74.5 | 75.6 |
| 15.....                     | 65.5                                     | 66.6 | 67.7 | 68.8 | 69.9 | 71.0 | 72.1 | 73.2 | 74.3 | 75.4 |
| 16.....                     | 65.4                                     | 66.5 | 67.6 | 68.7 | 69.8 | 70.9 | 72.0 | 73.1 | 74.2 | 75.3 |
| 17.....                     | 65.3                                     | 66.4 | 67.5 | 68.6 | 69.7 | 70.8 | 71.8 | 72.9 | 74.0 | 75.1 |
| 18.....                     | 65.1                                     | 66.2 | 67.3 | 68.4 | 69.5 | 70.6 | 71.7 | 72.8 | 73.9 | 75.0 |
| 19.....                     | 65.0                                     | 66.1 | 67.2 | 68.3 | 69.4 | 70.5 | 71.5 | 72.6 | 73.7 | 74.8 |
| 20.....                     | 64.9                                     | 66.0 | 67.1 | 68.2 | 69.2 | 70.3 | 71.4 | 72.5 | 73.6 | 74.7 |
| 21.....                     | 64.8                                     | 65.8 | 66.9 | 68.0 | 69.1 | 70.2 | 71.3 | 72.4 | 73.4 | 74.5 |
| 22.....                     | 64.6                                     | 65.7 | 66.8 | 67.9 | 69.0 | 70.0 | 71.1 | 72.2 | 73.3 | 74.4 |
| 23.....                     | 64.5                                     | 65.6 | 66.7 | 67.7 | 68.8 | 69.9 | 71.0 | 72.1 | 73.1 | 74.2 |
| 24.....                     | 64.4                                     | 65.4 | 66.5 | 67.6 | 68.7 | 69.8 | 70.8 | 71.9 | 73.0 | 74.1 |
| 25.....                     | 64.2                                     | 65.3 | 66.4 | 67.5 | 68.5 | 69.6 | 70.7 | 71.8 | 72.8 | 73.9 |
| 26.....                     | 64.1                                     | 65.2 | 66.3 | 67.3 | 68.4 | 69.5 | 70.6 | 71.6 | 72.7 | 73.8 |
| 27.....                     | 64.0                                     | 65.1 | 66.1 | 67.2 | 68.3 | 69.4 | 70.4 | 71.5 | 72.5 | 73.6 |
| 28.....                     | 63.9                                     | 64.9 | 66.0 | 67.1 | 68.1 | 69.2 | 70.3 | 71.3 | 72.4 | 73.5 |
| 29.....                     | 63.7                                     | 64.8 | 65.8 | 66.9 | 68.0 | 69.1 | 70.1 | 71.2 | 72.2 | 73.3 |
| 30.....                     | 63.6                                     | 64.7 | 65.7 | 66.8 | 67.9 | 68.9 | 70.0 | 71.0 | 72.1 | 73.2 |
| 31.....                     | 63.5                                     | 64.5 | 65.6 | 66.6 | 67.7 | 68.8 | 69.8 | 70.9 | 72.0 | 73.0 |
| 32.....                     | 63.4                                     | 64.4 | 65.5 | 66.5 | 67.6 | 68.7 | 69.7 | 70.8 | 71.8 | 72.9 |
| 33.....                     | 63.2                                     | 64.3 | 65.4 | 66.4 | 67.5 | 68.5 | 69.6 | 70.6 | 71.7 | 72.8 |
| 34.....                     | 63.1                                     | 64.2 | 65.2 | 66.3 | 67.3 | 68.4 | 69.4 | 70.5 | 71.5 | 72.6 |
| 35.....                     | 63.0                                     | 64.0 | 65.1 | 66.1 | 67.2 | 68.2 | 69.3 | 70.3 | 71.4 | 72.4 |
| 36.....                     | 62.9                                     | 63.9 | 65.0 | 66.0 | 67.0 | 68.1 | 69.1 | 70.2 | 71.2 | 72.3 |
| 37.....                     | 62.8                                     | 63.8 | 64.8 | 65.9 | 66.9 | 68.0 | 69.0 | 70.1 | 71.1 | 72.2 |
| 38.....                     | 62.6                                     | 63.6 | 64.7 | 65.7 | 66.8 | 67.8 | 68.9 | 69.9 | 71.0 | 72.0 |
| 39.....                     | 62.5                                     | 63.5 | 64.6 | 65.6 | 66.7 | 67.7 | 68.7 | 69.8 | 70.8 | 71.9 |
| 40.....                     | 62.4                                     | 63.4 | 64.4 | 65.5 | 66.5 | 67.6 | 68.6 | 69.7 | 70.7 | 71.8 |
| 41.....                     | 62.3                                     | 63.3 | 64.3 | 65.4 | 66.4 | 67.5 | 68.5 | 69.6 | 70.6 | 71.6 |
| 42.....                     | 62.1                                     | 63.2 | 64.2 | 65.2 | 66.3 | 67.3 | 68.3 | 69.4 | 70.4 | 71.5 |
| 43.....                     | 62.0                                     | 63.1 | 64.1 | 65.1 | 66.2 | 67.2 | 68.2 | 69.3 | 70.3 | 71.3 |
| 44.....                     | 61.9                                     | 62.9 | 64.0 | 65.0 | 66.0 | 67.1 | 68.1 | 69.2 | 70.2 | 71.2 |
| 45.....                     | 61.8                                     | 62.8 | 63.8 | 64.9 | 65.9 | 66.9 | 67.9 | 69.0 | 70.0 | 71.0 |
| 46.....                     | 61.6                                     | 62.6 | 63.7 | 64.7 | 65.7 | 66.8 | 67.8 | 68.9 | 69.9 | 70.9 |
| 47.....                     | 61.5                                     | 62.5 | 63.6 | 64.6 | 65.6 | 66.6 | 67.7 | 68.7 | 69.7 | 70.8 |
| 48.....                     | 61.4                                     | 62.4 | 63.4 | 64.5 | 65.5 | 66.5 | 67.5 | 68.6 | 69.6 | 70.6 |
| 49.....                     | 61.3                                     | 62.3 | 63.3 | 64.3 | 65.4 | 66.4 | 67.4 | 68.4 | 69.4 | 70.5 |
| 50.....                     | 61.2                                     | 62.2 | 63.2 | 64.2 | 65.3 | 66.3 | 67.3 | 68.3 | 69.3 | 70.4 |
| 51.....                     | 61.1                                     | 62.1 | 63.1 | 64.1 | 65.1 | 66.2 | 67.2 | 68.2 | 69.2 | 70.2 |
| 52.....                     | 60.9                                     | 61.9 | 62.9 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.1 |
| 53.....                     | 60.8                                     | 61.8 | 62.8 | 63.9 | 64.9 | 65.9 | 66.9 | 67.9 | 68.9 | 70.0 |
| 54.....                     | 60.7                                     | 61.7 | 62.7 | 63.7 | 64.8 | 65.8 | 66.8 | 67.8 | 68.8 | 69.8 |
| 55.....                     | 60.6                                     | 61.6 | 62.6 | 63.6 | 64.6 | 65.6 | 66.6 | 67.7 | 68.7 | 69.7 |
| 56.....                     | 60.4                                     | 61.4 | 62.5 | 63.5 | 64.5 | 65.5 | 66.5 | 67.5 | 68.5 | 69.5 |
| 57.....                     | 60.3                                     | 61.3 | 62.4 | 63.4 | 64.4 | 65.4 | 66.4 | 67.4 | 68.4 | 69.4 |
| 58.....                     | 60.2                                     | 61.2 | 62.3 | 63.3 | 64.3 | 65.3 | 66.3 | 67.3 | 68.3 | 69.3 |
| 59.....                     | 60.1                                     | 61.1 | 62.1 | 63.1 | 64.1 | 65.1 | 66.1 | 67.1 | 68.1 | 69.1 |
| 60.....                     | 60.0                                     | 61.0 | 62.0 | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 |
| 61.....                     | 59.9                                     | 60.9 | 61.9 | 62.9 | 63.9 | 64.9 | 65.9 | 66.9 | 67.9 | 68.9 |
| 62.....                     | 59.8                                     | 60.8 | 61.8 | 62.8 | 63.8 | 64.8 | 65.8 | 66.8 | 67.8 | 68.8 |
| 63.....                     | 59.6                                     | 60.6 | 61.6 | 62.6 | 63.6 | 64.6 | 65.6 | 66.6 | 67.6 | 68.6 |
| 64.....                     | 59.5                                     | 60.5 | 61.5 | 62.5 | 63.5 | 64.5 | 65.5 | 66.5 | 67.5 | 68.5 |

TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in ° F. | Observed degrees A. P. I.                |      |      |      |      |      |      |      |      |      |
|------------------------------|------------------------------------------|------|------|------|------|------|------|------|------|------|
|                              | 60                                       | 61   | 62   | 63   | 64   | 65   | 66   | 67   | 68   | 69   |
|                              | Corresponding degrees A. P. I. at 60° F. |      |      |      |      |      |      |      |      |      |
| 65.....                      | 59.4                                     | 60.4 | 61.4 | 62.4 | 63.4 | 64.4 | 65.4 | 66.4 | 67.3 | 68.3 |
| 66.....                      | 59.3                                     | 60.3 | 61.3 | 62.3 | 63.2 | 64.2 | 65.2 | 66.2 | 67.2 | 68.2 |
| 67.....                      | 59.2                                     | 60.2 | 61.2 | 62.2 | 63.1 | 64.1 | 65.1 | 66.1 | 67.1 | 68.1 |
| 68.....                      | 59.1                                     | 60.1 | 61.0 | 62.0 | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 |
| 69.....                      | 59.0                                     | 60.0 | 60.9 | 61.9 | 62.9 | 63.9 | 64.9 | 65.9 | 66.8 | 67.8 |
| 70.....                      | 58.9                                     | 59.8 | 60.8 | 61.8 | 62.8 | 63.8 | 64.7 | 65.7 | 66.7 | 67.7 |
| 71.....                      | 58.7                                     | 59.7 | 60.7 | 61.7 | 62.6 | 63.6 | 64.6 | 65.6 | 66.6 | 67.6 |
| 72.....                      | 58.6                                     | 59.6 | 60.6 | 61.6 | 62.5 | 63.5 | 64.5 | 65.4 | 66.4 | 67.4 |
| 73.....                      | 58.5                                     | 59.5 | 60.4 | 61.4 | 62.4 | 63.4 | 64.3 | 65.3 | 66.3 | 67.3 |
| 74.....                      | 58.4                                     | 59.4 | 60.3 | 61.3 | 62.3 | 63.2 | 64.2 | 65.2 | 66.2 | 67.2 |
| 75.....                      | 58.3                                     | 59.3 | 60.2 | 61.2 | 62.2 | 63.1 | 64.1 | 65.1 | 66.0 | 67.0 |
| 76.....                      | 58.2                                     | 59.2 | 60.1 | 61.1 | 62.0 | 63.0 | 64.0 | 65.0 | 65.9 | 66.9 |
| 77.....                      | 58.1                                     | 59.0 | 60.0 | 61.0 | 61.9 | 62.9 | 63.9 | 64.8 | 65.8 | 66.8 |
| 78.....                      | 58.0                                     | 58.9 | 59.9 | 60.9 | 61.8 | 62.8 | 63.7 | 64.7 | 65.7 | 66.6 |
| 79.....                      | 57.9                                     | 58.8 | 59.8 | 60.8 | 61.7 | 62.7 | 63.6 | 64.6 | 65.6 | 66.5 |
| 80.....                      | 57.8                                     | 58.7 | 59.7 | 60.6 | 61.6 | 62.6 | 63.5 | 64.5 | 65.4 | 66.4 |
| 81.....                      | 57.6                                     | 58.6 | 59.6 | 60.5 | 61.5 | 62.4 | 63.4 | 64.4 | 65.3 | 66.3 |
| 82.....                      | 57.5                                     | 58.5 | 59.4 | 60.4 | 61.4 | 62.3 | 63.3 | 64.2 | 65.2 | 66.2 |
| 83.....                      | 57.4                                     | 58.4 | 59.3 | 60.3 | 61.2 | 62.2 | 63.1 | 64.1 | 65.1 | 66.0 |
| 84.....                      | 57.3                                     | 58.3 | 59.2 | 60.2 | 61.1 | 62.1 | 63.0 | 64.0 | 64.9 | 65.9 |
| 85.....                      | 57.2                                     | 58.1 | 59.1 | 60.0 | 61.0 | 61.9 | 62.9 | 63.9 | 64.8 | 65.8 |
| 86.....                      | 57.1                                     | 58.0 | 59.0 | 59.9 | 60.9 | 61.8 | 62.8 | 63.7 | 64.7 | 65.6 |
| 87.....                      | 57.0                                     | 57.9 | 58.9 | 59.8 | 60.8 | 61.7 | 62.6 | 63.6 | 64.5 | 65.5 |
| 88.....                      | 56.9                                     | 57.8 | 58.7 | 59.7 | 60.6 | 61.6 | 62.5 | 63.5 | 64.4 | 65.4 |
| 89.....                      | 56.8                                     | 57.7 | 58.6 | 59.6 | 60.5 | 61.5 | 62.4 | 63.4 | 64.3 | 65.2 |
| 90.....                      | 56.7                                     | 57.6 | 58.5 | 59.5 | 60.4 | 61.4 | 62.3 | 63.2 | 64.2 | 65.1 |
| 91.....                      | 56.6                                     | 57.5 | 58.4 | 59.4 | 60.3 | 61.2 | 62.2 | 63.1 | 64.0 | 65.0 |
| 92.....                      | 56.5                                     | 57.4 | 58.3 | 59.2 | 60.2 | 61.1 | 62.0 | 63.0 | 63.9 | 64.9 |
| 93.....                      | 56.4                                     | 57.3 | 58.2 | 59.1 | 60.1 | 61.0 | 61.9 | 62.9 | 63.8 | 64.8 |
| 94.....                      | 56.2                                     | 57.2 | 58.1 | 59.0 | 59.9 | 60.9 | 61.8 | 62.8 | 63.7 | 64.6 |
| 95.....                      | 56.1                                     | 57.0 | 58.0 | 58.9 | 59.8 | 60.8 | 61.7 | 62.6 | 63.5 | 64.5 |
| 96.....                      | 56.0                                     | 56.9 | 57.8 | 58.8 | 59.7 | 60.6 | 61.6 | 62.5 | 63.4 | 64.4 |
| 97.....                      | 55.9                                     | 56.8 | 57.7 | 58.7 | 59.6 | 60.5 | 61.4 | 62.4 | 63.3 | 64.2 |
| 98.....                      | 55.8                                     | 56.7 | 57.6 | 58.6 | 59.5 | 60.4 | 61.3 | 62.3 | 63.2 | 64.1 |
| 99.....                      | 55.7                                     | 56.6 | 57.5 | 58.5 | 59.4 | 60.3 | 61.2 | 62.1 | 63.0 | 64.0 |
| 100.....                     | 55.6                                     | 56.5 | 57.4 | 58.4 | 59.3 | 60.2 | 61.1 | 62.0 | 62.9 | 63.9 |
| 101.....                     | 55.5                                     | 56.4 | 57.3 | 58.3 | 59.2 | 60.1 | 61.0 | 61.9 | 62.8 | 63.8 |
| 102.....                     | 55.4                                     | 56.3 | 57.2 | 58.2 | 59.1 | 60.0 | 60.9 | 61.8 | 62.7 | 63.6 |
| 103.....                     | 55.3                                     | 56.2 | 57.1 | 58.0 | 58.9 | 59.8 | 60.8 | 61.7 | 62.6 | 63.5 |
| 104.....                     | 55.2                                     | 56.1 | 57.0 | 57.9 | 58.8 | 59.7 | 60.6 | 61.6 | 62.5 | 63.4 |
| 105.....                     | 55.1                                     | 56.0 | 56.9 | 57.8 | 58.7 | 59.6 | 60.5 | 61.5 | 62.4 | 63.3 |
| 106.....                     | 55.0                                     | 55.9 | 56.8 | 57.7 | 58.6 | 59.5 | 60.4 | 61.3 | 62.2 | 63.2 |
| 107.....                     | 54.9                                     | 55.8 | 56.7 | 57.6 | 58.5 | 59.4 | 60.3 | 61.2 | 62.1 | 63.0 |
| 108.....                     | 54.8                                     | 55.7 | 56.6 | 57.5 | 58.4 | 59.3 | 60.2 | 61.1 | 62.0 | 62.9 |
| 109.....                     | 54.7                                     | 55.6 | 56.5 | 57.4 | 58.3 | 59.2 | 60.1 | 61.0 | 61.9 | 62.8 |
| 110.....                     | 54.6                                     | 55.5 | 56.4 | 57.3 | 58.2 | 59.1 | 60.0 | 60.9 | 61.8 | 62.7 |
| 111.....                     | 54.5                                     | 55.4 | 56.3 | 57.2 | 58.1 | 59.0 | 59.9 | 60.8 | 61.7 | 62.6 |
| 112.....                     | 54.4                                     | 55.3 | 56.2 | 57.1 | 58.0 | 58.8 | 59.7 | 60.6 | 61.5 | 62.5 |
| 113.....                     | 54.3                                     | 55.2 | 56.1 | 57.0 | 57.8 | 58.7 | 59.6 | 60.5 | 61.4 | 62.3 |
| 114.....                     | 54.2                                     | 55.1 | 56.0 | 56.9 | 57.7 | 58.6 | 59.5 | 60.4 | 61.3 | 62.2 |
| 115.....                     | 54.1                                     | 55.0 | 55.8 | 56.7 | 57.6 | 58.5 | 59.4 | 60.3 | 61.2 | 62.1 |
| 116.....                     | 54.0                                     | 54.9 | 55.7 | 56.6 | 57.5 | 58.4 | 59.3 | 60.2 | 61.1 | 62.0 |
| 117.....                     | 53.9                                     | 54.8 | 55.6 | 56.5 | 57.4 | 58.3 | 59.2 | 60.1 | 61.0 | 61.9 |
| 118.....                     | 53.8                                     | 54.7 | 55.5 | 56.4 | 57.3 | 58.2 | 59.1 | 60.0 | 60.9 | 61.8 |
| 119.....                     | 53.7                                     | 54.6 | 55.4 | 56.3 | 57.2 | 58.1 | 59.0 | 59.9 | 60.8 | 61.7 |
| 120.....                     | 53.6                                     | 54.5 | 55.3 | 56.2 | 57.1 | 58.0 | 58.9 | 59.8 | 60.6 | 61.5 |
| 121.....                     | 53.5                                     | 54.4 | 55.2 | 56.1 | 57.0 | 57.9 | 58.7 | 59.6 | 60.5 | 61.4 |
| 122.....                     | 53.4                                     | 54.3 | 55.1 | 56.0 | 56.9 | 57.8 | 58.6 | 59.5 | 60.4 | 61.3 |
| 123.....                     | 53.3                                     | 54.2 | 55.0 | 55.9 | 56.8 | 57.7 | 58.5 | 59.4 | 60.3 | 61.2 |
| 124.....                     | 53.2                                     | 54.1 | 54.9 | 55.8 | 56.7 | 57.6 | 58.4 | 59.3 | 60.2 | 61.1 |
| 125.....                     | 53.1                                     | 54.0 | 54.8 | 55.7 | 56.6 | 57.5 | 58.3 | 59.2 | 60.1 | 61.0 |



TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in °F. | Observed degrees A. P. I.                |      |      |      |      |      |      |      |      |      |
|-----------------------------|------------------------------------------|------|------|------|------|------|------|------|------|------|
|                             | 70                                       | 71   | 72   | 73   | 74   | 75   | 76   | 77   | 78   | 79   |
|                             | Corresponding degrees A. P. I. at 60° F. |      |      |      |      |      |      |      |      |      |
| 0.....                      | 78.8                                     | 80.0 | 81.2 | 82.3 | 83.4 | 84.6 | 85.7 | 86.9 | 88.1 | 89.2 |
| 1.....                      | 78.7                                     | 79.8 | 81.0 | 82.1 | 83.3 | 84.4 | 85.6 | 86.7 | 87.9 | 89.0 |
| 2.....                      | 78.5                                     | 79.7 | 80.9 | 82.0 | 83.1 | 84.3 | 85.4 | 86.5 | 87.7 | 88.8 |
| 3.....                      | 78.4                                     | 79.5 | 80.7 | 81.8 | 82.9 | 84.1 | 85.2 | 86.3 | 87.5 | 88.7 |
| 4.....                      | 78.2                                     | 79.3 | 80.5 | 81.6 | 82.7 | 83.9 | 85.0 | 86.2 | 87.3 | 88.5 |
| 5.....                      | 78.1                                     | 79.2 | 80.4 | 81.5 | 82.6 | 83.7 | 84.9 | 86.0 | 87.2 | 88.3 |
| 6.....                      | 77.9                                     | 79.0 | 80.2 | 81.3 | 82.4 | 83.6 | 84.7 | 85.8 | 87.0 | 88.1 |
| 7.....                      | 77.8                                     | 78.9 | 80.0 | 81.1 | 82.2 | 83.4 | 84.5 | 85.7 | 86.8 | 88.0 |
| 8.....                      | 77.6                                     | 78.7 | 79.9 | 81.0 | 82.1 | 83.2 | 84.4 | 85.5 | 86.7 | 87.8 |
| 9.....                      | 77.4                                     | 78.5 | 79.7 | 80.8 | 81.9 | 83.1 | 84.2 | 85.3 | 86.5 | 87.6 |
| 10.....                     | 77.3                                     | 78.4 | 79.5 | 80.6 | 81.7 | 82.9 | 84.0 | 85.1 | 86.3 | 87.4 |
| 11.....                     | 77.1                                     | 78.2 | 79.4 | 80.5 | 81.6 | 82.7 | 83.8 | 85.0 | 86.1 | 87.2 |
| 12.....                     | 77.0                                     | 78.1 | 79.2 | 80.3 | 81.4 | 82.5 | 83.6 | 84.8 | 85.9 | 87.0 |
| 13.....                     | 76.8                                     | 77.9 | 79.1 | 80.1 | 81.2 | 82.4 | 83.5 | 84.6 | 85.7 | 86.9 |
| 14.....                     | 76.7                                     | 77.8 | 78.9 | 80.0 | 81.1 | 82.2 | 83.3 | 84.4 | 85.6 | 86.7 |
| 15.....                     | 76.5                                     | 77.6 | 78.7 | 79.8 | 80.9 | 82.0 | 83.1 | 84.2 | 85.4 | 86.5 |
| 16.....                     | 76.4                                     | 77.5 | 78.6 | 79.7 | 80.8 | 81.9 | 83.0 | 84.1 | 85.2 | 86.3 |
| 17.....                     | 76.2                                     | 77.3 | 78.4 | 79.5 | 80.6 | 81.7 | 82.8 | 83.9 | 85.0 | 86.1 |
| 18.....                     | 76.1                                     | 77.2 | 78.3 | 79.4 | 80.4 | 81.5 | 82.6 | 83.7 | 84.9 | 86.0 |
| 19.....                     | 75.9                                     | 77.0 | 78.1 | 79.2 | 80.3 | 81.4 | 82.5 | 83.6 | 84.7 | 85.8 |
| 20.....                     | 75.8                                     | 76.9 | 78.0 | 79.0 | 80.1 | 81.2 | 82.3 | 83.4 | 84.5 | 85.6 |
| 21.....                     | 75.6                                     | 76.7 | 77.8 | 78.9 | 79.9 | 81.0 | 82.1 | 83.2 | 84.3 | 85.4 |
| 22.....                     | 75.5                                     | 76.5 | 77.6 | 78.7 | 79.8 | 80.9 | 82.0 | 83.0 | 84.1 | 85.2 |
| 23.....                     | 75.3                                     | 76.4 | 77.5 | 78.6 | 79.6 | 80.7 | 81.8 | 82.9 | 84.0 | 85.1 |
| 24.....                     | 75.1                                     | 76.2 | 77.3 | 78.4 | 79.4 | 80.5 | 81.6 | 82.7 | 83.8 | 84.9 |
| 25.....                     | 75.0                                     | 76.1 | 77.2 | 78.2 | 79.3 | 80.4 | 81.5 | 82.5 | 83.6 | 84.7 |
| 26.....                     | 74.9                                     | 75.9 | 77.0 | 78.1 | 79.1 | 80.2 | 81.3 | 82.4 | 83.5 | 84.6 |
| 27.....                     | 74.7                                     | 75.8 | 76.9 | 77.9 | 79.0 | 80.1 | 81.2 | 82.2 | 83.3 | 84.4 |
| 28.....                     | 74.6                                     | 75.6 | 76.7 | 77.8 | 78.8 | 79.9 | 81.0 | 82.1 | 83.2 | 84.2 |
| 29.....                     | 74.4                                     | 75.5 | 76.6 | 77.6 | 78.7 | 79.8 | 80.8 | 81.9 | 83.0 | 84.1 |
| 30.....                     | 74.3                                     | 75.3 | 76.4 | 77.5 | 78.5 | 79.6 | 80.7 | 81.7 | 82.8 | 83.9 |
| 31.....                     | 74.1                                     | 75.2 | 76.3 | 77.3 | 78.4 | 79.4 | 80.5 | 81.6 | 82.7 | 83.7 |
| 32.....                     | 74.0                                     | 75.0 | 76.1 | 77.2 | 78.2 | 79.3 | 80.4 | 81.4 | 82.5 | 83.6 |
| 33.....                     | 73.8                                     | 74.9 | 76.0 | 77.0 | 78.1 | 79.1 | 80.2 | 81.2 | 82.3 | 83.4 |
| 34.....                     | 73.7                                     | 74.7 | 75.8 | 76.9 | 77.9 | 79.0 | 80.0 | 81.1 | 82.2 | 83.2 |
| 35.....                     | 73.5                                     | 74.6 | 75.6 | 76.7 | 77.7 | 78.8 | 79.8 | 80.9 | 82.0 | 83.0 |
| 36.....                     | 73.4                                     | 74.4 | 75.5 | 76.5 | 77.6 | 78.6 | 79.7 | 80.7 | 81.8 | 82.9 |
| 37.....                     | 73.2                                     | 74.3 | 75.3 | 76.4 | 77.4 | 78.5 | 79.5 | 80.6 | 81.6 | 82.7 |
| 38.....                     | 73.1                                     | 74.1 | 75.2 | 76.2 | 77.3 | 78.3 | 79.4 | 80.4 | 81.5 | 82.5 |
| 39.....                     | 72.9                                     | 74.0 | 75.0 | 76.1 | 77.1 | 78.2 | 79.2 | 80.3 | 81.3 | 82.4 |
| 40.....                     | 72.8                                     | 73.8 | 74.9 | 75.9 | 77.0 | 78.0 | 79.1 | 80.1 | 81.2 | 82.2 |
| 41.....                     | 72.7                                     | 73.7 | 74.8 | 75.8 | 76.8 | 77.9 | 78.9 | 79.9 | 81.0 | 82.0 |
| 42.....                     | 72.5                                     | 73.5 | 74.6 | 75.6 | 76.7 | 77.7 | 78.8 | 79.8 | 80.8 | 81.9 |
| 43.....                     | 72.4                                     | 73.4 | 74.5 | 75.5 | 76.5 | 77.6 | 78.6 | 79.6 | 80.7 | 81.7 |
| 44.....                     | 72.2                                     | 73.2 | 74.3 | 75.3 | 76.3 | 77.4 | 78.4 | 79.4 | 80.5 | 81.5 |



TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in °F. | Observed degrees A. P. I.                |      |      |      |      |      |      |      |      |      |
|-----------------------------|------------------------------------------|------|------|------|------|------|------|------|------|------|
|                             | 70                                       | 71   | 72   | 73   | 74   | 75   | 76   | 77   | 78   | 79   |
|                             | Corresponding degrees A. P. I. at 60° F. |      |      |      |      |      |      |      |      |      |
| 45.....                     | 72.1                                     | 73.1 | 74.2 | 75.2 | 76.2 | 77.2 | 78.3 | 79.3 | 80.3 | 81.4 |
| 46.....                     | 71.9                                     | 72.9 | 74.0 | 75.0 | 76.0 | 77.1 | 78.1 | 79.1 | 80.2 | 81.2 |
| 47.....                     | 71.8                                     | 72.8 | 73.9 | 74.9 | 75.9 | 76.9 | 78.0 | 79.0 | 80.0 | 81.1 |
| 48.....                     | 71.7                                     | 72.7 | 73.7 | 74.7 | 75.7 | 76.8 | 77.8 | 78.8 | 79.8 | 80.9 |
| 49.....                     | 71.5                                     | 72.5 | 73.6 | 74.6 | 75.6 | 76.6 | 77.7 | 78.7 | 79.7 | 80.7 |
| 50.....                     | 71.4                                     | 72.4 | 73.4 | 74.5 | 75.5 | 76.5 | 77.5 | 78.5 | 79.6 | 80.6 |
| 51.....                     | 71.2                                     | 72.2 | 73.3 | 74.3 | 75.3 | 76.3 | 77.4 | 78.4 | 79.4 | 80.4 |
| 52.....                     | 71.1                                     | 72.1 | 73.2 | 74.2 | 75.2 | 76.2 | 77.2 | 78.2 | 79.3 | 80.3 |
| 53.....                     | 71.0                                     | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.1 | 78.1 | 79.1 | 80.1 |
| 54.....                     | 70.8                                     | 71.8 | 72.9 | 73.9 | 74.9 | 75.9 | 76.9 | 77.9 | 78.9 | 80.0 |
| 55.....                     | 70.7                                     | 71.7 | 72.7 | 73.7 | 74.7 | 75.7 | 76.8 | 77.8 | 78.8 | 79.8 |
| 56.....                     | 70.5                                     | 71.5 | 72.6 | 73.6 | 74.6 | 75.6 | 76.6 | 77.6 | 78.6 | 79.6 |
| 57.....                     | 70.4                                     | 71.4 | 72.4 | 73.4 | 74.4 | 75.4 | 76.5 | 77.5 | 78.5 | 79.5 |
| 58.....                     | 70.3                                     | 71.3 | 72.3 | 73.3 | 74.3 | 75.3 | 76.3 | 77.3 | 78.3 | 79.3 |
| 59.....                     | 70.1                                     | 71.1 | 72.2 | 73.2 | 74.2 | 75.2 | 76.2 | 77.2 | 78.2 | 79.2 |
| 60.....                     | 70.0                                     | 71.0 | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 |
| 61.....                     | 69.9                                     | 70.9 | 71.9 | 72.9 | 73.9 | 74.9 | 75.9 | 76.8 | 77.8 | 78.8 |
| 62.....                     | 69.8                                     | 70.8 | 71.8 | 72.7 | 73.7 | 74.7 | 75.7 | 76.7 | 77.7 | 78.7 |
| 63.....                     | 69.6                                     | 70.6 | 71.6 | 72.6 | 73.6 | 74.6 | 75.6 | 76.5 | 77.5 | 78.5 |
| 64.....                     | 69.5                                     | 70.5 | 71.5 | 72.4 | 73.4 | 74.4 | 75.4 | 76.4 | 77.4 | 78.4 |
| 65.....                     | 69.3                                     | 70.3 | 71.3 | 72.3 | 73.3 | 74.3 | 75.2 | 76.2 | 77.2 | 78.2 |
| 66.....                     | 69.2                                     | 70.2 | 71.2 | 72.2 | 73.1 | 74.1 | 75.1 | 76.1 | 77.1 | 78.1 |
| 67.....                     | 69.1                                     | 70.1 | 71.1 | 72.0 | 73.0 | 74.0 | 75.0 | 75.9 | 76.9 | 77.9 |
| 68.....                     | 68.9                                     | 69.9 | 70.9 | 71.9 | 72.9 | 73.9 | 74.8 | 75.8 | 76.8 | 77.8 |
| 69.....                     | 68.8                                     | 69.8 | 70.8 | 71.7 | 72.7 | 73.7 | 74.7 | 75.6 | 76.6 | 77.6 |
| 70.....                     | 68.6                                     | 69.6 | 70.6 | 71.6 | 72.6 | 73.6 | 74.5 | 75.5 | 76.5 | 77.5 |
| 71.....                     | 68.5                                     | 69.5 | 70.5 | 71.4 | 72.4 | 73.4 | 74.4 | 75.3 | 76.3 | 77.3 |
| 72.....                     | 68.4                                     | 69.4 | 70.4 | 71.3 | 72.3 | 73.3 | 74.2 | 75.2 | 76.2 | 77.1 |
| 73.....                     | 68.3                                     | 69.3 | 70.3 | 71.2 | 72.2 | 73.1 | 74.1 | 75.0 | 76.0 | 77.0 |
| 74.....                     | 68.1                                     | 69.1 | 70.1 | 71.0 | 72.0 | 73.0 | 73.9 | 74.9 | 75.9 | 76.8 |
| 75.....                     | 68.0                                     | 69.0 | 70.0 | 70.9 | 71.9 | 72.9 | 73.8 | 74.8 | 75.8 | 76.7 |
| 76.....                     | 67.9                                     | 68.8 | 69.8 | 70.8 | 71.7 | 72.7 | 73.7 | 74.6 | 75.6 | 76.6 |
| 77.....                     | 67.7                                     | 68.7 | 69.7 | 70.6 | 71.6 | 72.6 | 73.5 | 74.5 | 75.5 | 76.4 |
| 78.....                     | 67.6                                     | 68.6 | 69.6 | 70.5 | 71.5 | 72.4 | 73.4 | 74.4 | 75.3 | 76.3 |
| 79.....                     | 67.5                                     | 68.4 | 69.4 | 70.4 | 71.3 | 72.3 | 73.2 | 74.2 | 75.2 | 76.1 |
| 80.....                     | 67.4                                     | 68.3 | 69.3 | 70.2 | 71.2 | 72.2 | 73.1 | 74.1 | 75.0 | 76.0 |
| 81.....                     | 67.2                                     | 68.2 | 69.1 | 70.1 | 71.0 | 72.0 | 73.0 | 73.9 | 74.9 | 75.8 |
| 82.....                     | 67.1                                     | 68.1 | 69.0 | 70.0 | 70.9 | 71.9 | 72.8 | 73.8 | 74.7 | 75.6 |
| 83.....                     | 67.0                                     | 67.9 | 68.9 | 69.8 | 70.8 | 71.7 | 72.6 | 73.6 | 74.6 | 75.5 |
| 84.....                     | 66.8                                     | 67.8 | 68.7 | 69.7 | 70.6 | 71.6 | 72.5 | 73.4 | 74.4 | 75.3 |
| 85.....                     | 66.7                                     | 67.6 | 68.6 | 69.5 | 70.5 | 71.4 | 72.4 | 73.3 | 74.3 | 75.2 |
| 86.....                     | 66.6                                     | 67.5 | 68.5 | 69.4 | 70.4 | 71.3 | 72.2 | 73.2 | 74.1 | 75.1 |
| 87.....                     | 66.4                                     | 67.4 | 68.4 | 69.3 | 70.2 | 71.2 | 72.1 | 73.0 | 74.0 | 74.9 |
| 88.....                     | 66.3                                     | 67.2 | 68.2 | 69.1 | 70.1 | 71.0 | 72.0 | 72.9 | 73.8 | 74.8 |
| 89.....                     | 66.2                                     | 67.1 | 68.1 | 69.0 | 70.0 | 70.9 | 71.8 | 72.8 | 73.7 | 74.6 |
| 90.....                     | 66.1                                     | 67.0 | 68.0 | 68.9 | 69.8 | 70.8 | 71.7 | 72.6 | 73.6 | 74.5 |

TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in °F. | Observed degrees A. P. I.                |      |      |      |      |      |      |      |      |       |
|-----------------------------|------------------------------------------|------|------|------|------|------|------|------|------|-------|
|                             | 80                                       | 81   | 82   | 83   | 84   | 85   | 86   | 87   | 88   | 89    |
|                             | Corresponding degrees A. P. I. at 60° F. |      |      |      |      |      |      |      |      |       |
| 0.....                      | 90.4                                     | 91.6 | 92.7 | 93.9 | 95.1 | 96.3 | 97.5 | 98.7 | 99.9 | 101.1 |
| 1.....                      | 90.2                                     | 91.4 | 92.5 | 93.7 | 94.9 | 96.1 | 97.3 | 98.5 | 99.7 | 100.9 |
| 2.....                      | 90.0                                     | 91.2 | 92.4 | 93.5 | 94.7 | 95.9 | 97.1 | 98.3 | 99.5 | 100.7 |
| 3.....                      | 89.8                                     | 91.0 | 92.2 | 93.3 | 94.5 | 95.7 | 96.9 | 98.1 | 99.3 | 100.4 |
| 4.....                      | 89.6                                     | 90.8 | 92.0 | 93.1 | 94.3 | 95.5 | 96.7 | 97.9 | 99.1 | 100.2 |
| 5.....                      | 89.4                                     | 90.6 | 91.8 | 92.9 | 94.1 | 95.3 | 96.5 | 97.7 | 98.9 | 100.0 |
| 6.....                      | 89.3                                     | 90.4 | 91.6 | 92.7 | 93.9 | 95.1 | 96.3 | 97.5 | 98.7 | 99.8  |
| 7.....                      | 89.1                                     | 90.2 | 91.4 | 92.5 | 93.7 | 94.9 | 96.0 | 97.2 | 98.4 | 99.6  |
| 8.....                      | 88.9                                     | 90.0 | 91.2 | 92.4 | 93.5 | 94.7 | 95.8 | 97.0 | 98.2 | 99.3  |
| 9.....                      | 88.7                                     | 89.8 | 91.0 | 92.2 | 93.3 | 94.5 | 95.6 | 96.8 | 98.0 | 99.1  |
| 10.....                     | 88.6                                     | 89.7 | 90.8 | 92.0 | 93.1 | 94.2 | 95.4 | 96.6 | 97.8 | 98.9  |
| 11.....                     | 88.4                                     | 89.5 | 90.6 | 91.8 | 92.9 | 94.0 | 95.2 | 96.4 | 97.5 | 98.7  |
| 12.....                     | 88.2                                     | 89.3 | 90.4 | 91.6 | 92.7 | 93.8 | 95.0 | 96.1 | 97.3 | 98.4  |
| 13.....                     | 88.0                                     | 89.1 | 90.2 | 91.4 | 92.5 | 93.6 | 94.8 | 95.9 | 97.1 | 98.2  |
| 14.....                     | 87.8                                     | 88.9 | 90.0 | 91.2 | 92.3 | 93.4 | 94.6 | 95.7 | 96.9 | 98.0  |
| 15.....                     | 87.6                                     | 88.7 | 89.9 | 91.0 | 92.1 | 93.2 | 94.4 | 95.5 | 96.7 | 97.8  |
| 16.....                     | 87.5                                     | 88.6 | 89.7 | 90.8 | 91.9 | 93.0 | 94.2 | 95.3 | 96.5 | 97.6  |
| 17.....                     | 87.3                                     | 88.4 | 89.5 | 90.6 | 91.7 | 92.8 | 94.0 | 95.1 | 96.3 | 97.4  |
| 18.....                     | 87.1                                     | 88.2 | 89.3 | 90.4 | 91.5 | 92.6 | 93.8 | 94.9 | 96.1 | 97.2  |
| 19.....                     | 86.9                                     | 88.0 | 89.1 | 90.2 | 91.3 | 92.4 | 93.6 | 94.7 | 95.9 | 97.0  |
| 20.....                     | 86.7                                     | 87.8 | 88.9 | 90.0 | 91.1 | 92.2 | 93.4 | 94.5 | 95.7 | 96.8  |
| 21.....                     | 86.5                                     | 87.6 | 88.7 | 89.8 | 90.9 | 92.0 | 93.2 | 94.3 | 95.4 | 96.5  |
| 22.....                     | 86.4                                     | 87.5 | 88.6 | 89.7 | 90.8 | 91.9 | 93.0 | 94.1 | 95.2 | 96.3  |
| 23.....                     | 86.2                                     | 87.3 | 88.4 | 89.5 | 90.6 | 91.7 | 92.8 | 93.9 | 95.0 | 96.1  |
| 24.....                     | 86.0                                     | 87.1 | 88.2 | 89.3 | 90.4 | 91.5 | 92.6 | 93.7 | 94.8 | 95.9  |
| 25.....                     | 85.8                                     | 86.9 | 88.0 | 89.1 | 90.2 | 91.3 | 92.4 | 93.5 | 94.6 | 95.7  |
| 26.....                     | 85.6                                     | 86.7 | 87.8 | 88.9 | 90.0 | 91.1 | 92.2 | 93.3 | 94.4 | 95.5  |
| 27.....                     | 85.4                                     | 86.5 | 87.6 | 88.7 | 89.8 | 90.9 | 92.0 | 93.1 | 94.2 | 95.3  |
| 28.....                     | 85.3                                     | 86.4 | 87.4 | 88.5 | 89.6 | 90.7 | 91.8 | 92.9 | 94.0 | 95.1  |
| 29.....                     | 85.1                                     | 86.2 | 87.3 | 88.4 | 89.4 | 90.5 | 91.6 | 92.7 | 93.8 | 94.9  |
| 30.....                     | 84.9                                     | 86.0 | 87.1 | 88.2 | 89.3 | 90.3 | 91.4 | 92.5 | 93.6 | 94.7  |
| 31.....                     | 84.8                                     | 85.8 | 86.9 | 88.0 | 89.1 | 90.2 | 91.2 | 92.3 | 93.4 | 94.5  |
| 32.....                     | 84.6                                     | 85.7 | 86.7 | 87.8 | 88.9 | 90.0 | 91.0 | 92.1 | 93.2 | 94.3  |
| 33.....                     | 84.4                                     | 85.5 | 86.5 | 87.6 | 88.7 | 89.8 | 90.8 | 91.9 | 93.0 | 94.1  |
| 34.....                     | 84.2                                     | 85.3 | 86.4 | 87.4 | 88.5 | 89.6 | 90.7 | 91.7 | 92.8 | 93.9  |
| 35.....                     | 84.1                                     | 85.1 | 86.2 | 87.2 | 88.3 | 89.4 | 90.5 | 91.5 | 92.6 | 93.7  |
| 36.....                     | 83.9                                     | 85.0 | 86.0 | 87.1 | 88.2 | 89.2 | 90.3 | 91.3 | 92.4 | 93.5  |
| 37.....                     | 83.7                                     | 84.8 | 85.9 | 86.9 | 88.0 | 89.0 | 90.1 | 91.2 | 92.2 | 93.3  |
| 38.....                     | 83.6                                     | 84.6 | 85.7 | 86.7 | 87.8 | 88.8 | 89.9 | 91.0 | 92.1 | 93.1  |
| 39.....                     | 83.4                                     | 84.5 | 85.5 | 86.6 | 87.6 | 88.7 | 89.7 | 90.8 | 91.9 | 92.9  |
| 40.....                     | 83.2                                     | 84.3 | 85.4 | 86.4 | 87.5 | 88.5 | 89.6 | 90.6 | 91.7 | 92.7  |
| 41.....                     | 83.1                                     | 84.1 | 85.2 | 86.2 | 87.3 | 88.3 | 89.4 | 90.4 | 91.5 | 92.5  |
| 42.....                     | 82.9                                     | 83.9 | 85.0 | 86.0 | 87.1 | 88.1 | 89.2 | 90.2 | 91.3 | 92.4  |
| 43.....                     | 82.7                                     | 83.8 | 84.8 | 85.9 | 86.9 | 88.0 | 89.0 | 90.0 | 91.1 | 92.2  |
| 44.....                     | 82.6                                     | 83.6 | 84.7 | 85.7 | 86.7 | 87.8 | 88.8 | 89.9 | 90.9 | 92.0  |

TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in °F. | Observed degrees A. P. I.                |      |      |      |      |      |      |      |      |      |
|-----------------------------|------------------------------------------|------|------|------|------|------|------|------|------|------|
|                             | 80                                       | 81   | 82   | 83   | 84   | 85   | 86   | 87   | 88   | 89   |
|                             | Corresponding degrees A. P. I. at 60° F. |      |      |      |      |      |      |      |      |      |
| 45.....                     | 82.4                                     | 83.4 | 84.5 | 85.5 | 86.6 | 87.6 | 88.6 | 89.7 | 90.7 | 91.8 |
| 46.....                     | 82.2                                     | 83.2 | 84.3 | 85.3 | 86.4 | 87.4 | 88.4 | 89.5 | 90.5 | 91.6 |
| 47.....                     | 82.1                                     | 83.1 | 84.1 | 85.2 | 86.2 | 87.2 | 88.3 | 89.3 | 90.4 | 91.4 |
| 48.....                     | 81.9                                     | 82.9 | 84.0 | 85.0 | 86.0 | 87.1 | 88.1 | 89.1 | 90.2 | 91.2 |
| 49.....                     | 81.8                                     | 82.8 | 83.8 | 84.8 | 85.9 | 86.9 | 87.9 | 88.9 | 90.0 | 91.0 |
| 50.....                     | 81.6                                     | 82.6 | 83.6 | 84.7 | 85.7 | 86.7 | 87.7 | 88.8 | 89.8 | 90.8 |
| 51.....                     | 81.4                                     | 82.4 | 83.5 | 84.5 | 85.5 | 86.6 | 87.6 | 88.6 | 89.6 | 90.7 |
| 52.....                     | 81.3                                     | 82.3 | 83.3 | 84.3 | 85.4 | 86.4 | 87.4 | 88.4 | 89.4 | 90.5 |
| 53.....                     | 81.1                                     | 82.1 | 83.1 | 84.1 | 85.2 | 86.2 | 87.2 | 88.2 | 89.2 | 90.3 |
| 54.....                     | 81.0                                     | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.1 | 90.1 |
| 55.....                     | 80.8                                     | 81.8 | 82.8 | 83.8 | 84.8 | 85.8 | 86.8 | 87.8 | 88.9 | 89.9 |
| 56.....                     | 80.6                                     | 81.6 | 82.6 | 83.6 | 84.7 | 85.7 | 86.7 | 87.7 | 88.7 | 89.7 |
| 57.....                     | 80.5                                     | 81.5 | 82.5 | 83.5 | 84.5 | 85.5 | 86.5 | 87.5 | 88.5 | 89.5 |
| 58.....                     | 80.3                                     | 81.3 | 82.3 | 83.3 | 84.3 | 85.3 | 86.3 | 87.3 | 88.3 | 89.3 |
| 59.....                     | 80.2                                     | 81.2 | 82.2 | 83.2 | 84.2 | 85.2 | 86.2 | 87.2 | 88.2 | 89.2 |
| 60.....                     | 80.0                                     | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
| 61.....                     | 79.8                                     | 80.8 | 81.8 | 82.8 | 83.8 | 84.8 | 85.8 | 86.8 | 87.8 | 88.8 |
| 62.....                     | 79.7                                     | 80.7 | 81.7 | 82.7 | 83.7 | 84.7 | 85.7 | 86.7 | 87.7 | 88.7 |
| 63.....                     | 79.5                                     | 80.5 | 81.5 | 82.5 | 83.5 | 84.5 | 85.5 | 86.5 | 87.5 | 88.5 |
| 64.....                     | 79.4                                     | 80.4 | 81.3 | 82.3 | 83.3 | 84.3 | 85.3 | 86.3 | 87.3 | 88.3 |
| 65.....                     | 79.2                                     | 80.2 | 81.2 | 82.2 | 83.2 | 84.1 | 85.1 | 86.1 | 87.1 | 88.1 |
| 66.....                     | 79.1                                     | 80.0 | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 87.9 |
| 67.....                     | 78.9                                     | 79.9 | 80.9 | 81.9 | 82.9 | 83.8 | 84.8 | 85.8 | 86.8 | 87.8 |
| 68.....                     | 78.8                                     | 79.7 | 80.7 | 81.7 | 82.7 | 83.6 | 84.6 | 85.6 | 86.6 | 87.6 |
| 69.....                     | 78.6                                     | 79.6 | 80.6 | 81.5 | 82.5 | 83.5 | 84.5 | 85.5 | 86.5 | 87.4 |
| 70.....                     | 78.4                                     | 79.4 | 80.4 | 81.4 | 82.4 | 83.3 | 84.3 | 85.3 | 86.3 | 87.2 |
| 71.....                     | 78.3                                     | 79.3 | 80.2 | 81.2 | 82.2 | 83.1 | 84.1 | 85.1 | 86.1 | 87.0 |
| 72.....                     | 78.1                                     | 79.1 | 80.1 | 81.1 | 82.0 | 83.0 | 84.0 | 84.9 | 85.9 | 86.9 |
| 73.....                     | 78.0                                     | 78.9 | 79.9 | 80.9 | 81.9 | 82.8 | 83.8 | 84.8 | 85.8 | 86.7 |
| 74.....                     | 77.8                                     | 78.8 | 79.8 | 80.7 | 81.7 | 82.7 | 83.6 | 84.6 | 85.6 | 86.5 |
| 75.....                     | 77.7                                     | 78.7 | 79.6 | 80.6 | 81.6 | 82.5 | 83.5 | 84.4 | 85.4 | 86.4 |
| 76.....                     | 77.5                                     | 78.5 | 79.4 | 80.4 | 81.4 | 82.3 | 83.3 | 84.3 | 85.2 | 86.2 |
| 77.....                     | 77.4                                     | 78.4 | 79.3 | 80.3 | 81.2 | 82.2 | 83.2 | 84.1 | 85.1 | 86.0 |
| 78.....                     | 77.2                                     | 78.2 | 79.1 | 80.1 | 81.1 | 82.0 | 83.0 | 83.9 | 84.9 | 85.8 |
| 79.....                     | 77.1                                     | 78.0 | 79.0 | 79.9 | 80.9 | 81.8 | 82.8 | 83.8 | 84.7 | 85.7 |
| 80.....                     | 76.9                                     | 77.8 | 78.8 | 79.8 | 80.7 | 81.7 | 82.6 | 83.6 | 84.6 | 85.5 |
| 81.....                     | 76.8                                     | 77.7 | 78.7 | 79.6 | 80.6 | 81.5 | 82.5 | 83.4 | 84.4 | 85.3 |
| 82.....                     | 76.6                                     | 77.5 | 78.5 | 79.4 | 80.4 | 81.3 | 82.3 | 83.2 | 84.2 | 85.1 |
| 83.....                     | 76.5                                     | 77.4 | 78.4 | 79.3 | 80.3 | 81.2 | 82.2 | 83.1 | 84.1 | 85.0 |
| 84.....                     | 76.3                                     | 77.2 | 78.2 | 79.1 | 80.1 | 81.0 | 82.0 | 82.9 | 83.9 | 84.8 |
| 85.....                     | 76.2                                     | 77.1 | 78.0 | 79.0 | 79.9 | 80.9 | 81.8 | 82.8 | 83.7 | 84.7 |
| 86.....                     | 76.0                                     | 77.0 | 77.9 | 78.8 | 79.8 | 80.7 | 81.7 | 82.6 | 83.6 | 84.5 |
| 87.....                     | 75.9                                     | 76.8 | 77.7 | 78.7 | 79.6 | 80.6 | 81.5 | 82.5 | 83.4 | 84.3 |
| 88.....                     | 75.7                                     | 76.6 | 77.6 | 78.5 | 79.5 | 80.4 | 81.3 | 82.3 | 83.2 | 84.2 |
| 89.....                     | 75.6                                     | 76.5 | 77.4 | 78.4 | 79.3 | 80.3 | 81.2 | 82.2 | 83.1 | 84.0 |
| 90.....                     | 75.5                                     | 76.4 | 77.3 | 78.2 | 79.2 | 80.1 | 81.0 | 82.0 | 82.9 | 83.8 |

TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in °F. | Observed degrees A. P. I.                |       |       |       |       |       |       |       |       |       |
|-----------------------------|------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                             | 90                                       | 91    | 92    | 93    | 94    | 95    | 96    | 97    | 98    | 99    |
|                             | Corresponding degrees A. P. I. at 60° F. |       |       |       |       |       |       |       |       |       |
| 0.....                      | 102.3                                    | 103.5 | 104.7 | 105.9 | 107.1 | 108.3 | 109.5 | 110.7 | 111.9 | 113.1 |
| 1.....                      | 102.1                                    | 103.3 | 104.5 | 105.7 | 106.8 | 108.0 | 109.3 | 110.5 | 111.7 | 112.8 |
| 2.....                      | 101.9                                    | 103.0 | 104.2 | 105.4 | 106.6 | 107.8 | 109.0 | 110.2 | 111.4 | 112.6 |
| 3.....                      | 101.6                                    | 102.8 | 104.0 | 105.2 | 106.4 | 107.6 | 108.8 | 110.0 | 111.2 | 112.3 |
| 4.....                      | 101.4                                    | 102.6 | 103.8 | 105.0 | 106.1 | 107.3 | 108.5 | 109.7 | 110.9 | 112.1 |
| 5.....                      | 101.2                                    | 102.3 | 103.5 | 104.7 | 105.9 | 107.1 | 108.3 | 109.5 | 110.6 | 111.8 |
| 6.....                      | 101.0                                    | 102.1 | 103.3 | 104.5 | 105.7 | 106.8 | 108.0 | 109.2 | 110.4 | 111.6 |
| 7.....                      | 100.7                                    | 101.9 | 103.1 | 104.2 | 105.4 | 106.6 | 107.8 | 109.0 | 110.1 | 111.3 |
| 8.....                      | 100.5                                    | 101.6 | 102.8 | 104.0 | 105.2 | 106.4 | 107.5 | 108.7 | 109.9 | 111.1 |
| 9.....                      | 100.3                                    | 101.4 | 102.6 | 103.8 | 104.9 | 106.1 | 107.3 | 108.4 | 109.6 | 110.8 |
| 10.....                     | 100.0                                    | 101.2 | 102.4 | 103.6 | 104.7 | 105.9 | 107.0 | 108.2 | 109.4 | 110.5 |
| 11.....                     | 99.8                                     | 101.0 | 102.2 | 103.3 | 104.4 | 105.7 | 106.8 | 108.0 | 109.1 | 110.3 |
| 12.....                     | 99.6                                     | 100.7 | 101.9 | 103.1 | 104.2 | 105.4 | 106.6 | 107.7 | 108.9 | 110.0 |
| 13.....                     | 99.4                                     | 100.5 | 101.7 | 102.8 | 104.0 | 105.2 | 106.3 | 107.5 | 108.6 | 109.8 |
| 14.....                     | 99.2                                     | 100.3 | 101.5 | 102.6 | 103.7 | 104.9 | 106.1 | 107.2 | 108.4 | 109.6 |
| 15.....                     | 99.0                                     | 100.1 | 101.3 | 102.4 | 103.5 | 104.7 | 105.8 | 107.0 | 108.1 | 109.3 |
| 16.....                     | 98.7                                     | 99.9  | 101.0 | 102.2 | 103.3 | 104.5 | 105.6 | 106.8 | 107.9 | 109.0 |
| 17.....                     | 98.5                                     | 99.6  | 100.8 | 101.9 | 102.0 | 104.2 | 105.4 | 106.5 | 107.6 | 108.8 |
| 18.....                     | 98.3                                     | 99.4  | 100.6 | 101.7 | 102.8 | 104.0 | 105.1 | 106.3 | 107.4 | 108.5 |
| 19.....                     | 98.1                                     | 99.2  | 100.4 | 101.5 | 102.6 | 103.7 | 104.8 | 106.0 | 107.1 | 108.2 |
| 20.....                     | 97.9                                     | 99.0  | 100.1 | 101.2 | 102.3 | 103.5 | 104.6 | 105.8 | 106.9 | 108.0 |
| 21.....                     | 97.7                                     | 98.8  | 99.9  | 101.0 | 102.1 | 103.3 | 104.4 | 105.5 | 106.6 | 107.8 |
| 22.....                     | 97.5                                     | 98.6  | 99.7  | 100.8 | 101.9 | 103.1 | 104.2 | 105.3 | 106.4 | 107.5 |
| 23.....                     | 97.2                                     | 98.3  | 99.5  | 100.6 | 101.7 | 102.8 | 103.9 | 105.1 | 106.2 | 107.3 |
| 24.....                     | 97.0                                     | 98.1  | 99.3  | 100.4 | 101.5 | 102.6 | 103.7 | 104.8 | 106.0 | 107.1 |
| 25.....                     | 96.8                                     | 97.9  | 99.1  | 100.2 | 101.3 | 102.4 | 103.5 | 104.6 | 105.7 | 106.8 |
| 26.....                     | 96.6                                     | 97.7  | 98.8  | 99.9  | 101.0 | 102.2 | 103.3 | 104.4 | 105.5 | 106.6 |
| 27.....                     | 96.4                                     | 97.5  | 98.6  | 99.7  | 100.8 | 101.9 | 103.0 | 104.1 | 105.2 | 106.4 |
| 28.....                     | 96.2                                     | 97.3  | 98.4  | 99.5  | 100.6 | 101.7 | 102.8 | 103.9 | 105.0 | 106.1 |
| 29.....                     | 96.0                                     | 97.1  | 98.2  | 99.3  | 100.4 | 101.5 | 102.6 | 103.7 | 104.8 | 105.9 |
| 30.....                     | 95.8                                     | 96.9  | 98.0  | 99.1  | 100.2 | 101.3 | 102.4 | 103.4 | 104.5 | 105.6 |
| 31.....                     | 95.6                                     | 96.7  | 97.8  | 98.8  | 99.9  | 101.0 | 102.1 | 103.2 | 104.3 | 105.4 |
| 32.....                     | 95.4                                     | 96.5  | 97.6  | 98.6  | 99.7  | 100.8 | 101.9 | 103.0 | 104.1 | 105.2 |
| 33.....                     | 95.2                                     | 96.3  | 97.4  | 98.4  | 99.5  | 100.6 | 101.7 | 102.8 | 103.9 | 105.0 |
| 34.....                     | 95.0                                     | 96.1  | 97.2  | 98.2  | 99.3  | 100.4 | 101.5 | 102.5 | 103.6 | 104.7 |
| 35.....                     | 94.8                                     | 95.9  | 97.0  | 98.0  | 99.1  | 100.2 | 101.3 | 102.3 | 103.4 | 104.5 |
| 36.....                     | 94.6                                     | 95.7  | 96.8  | 97.8  | 98.9  | 100.0 | 101.0 | 102.1 | 103.2 | 104.3 |
| 37.....                     | 94.4                                     | 95.5  | 96.6  | 97.6  | 98.7  | 99.8  | 100.8 | 101.9 | 103.0 | 104.1 |
| 38.....                     | 94.2                                     | 95.3  | 96.4  | 97.4  | 98.5  | 99.6  | 100.6 | 101.7 | 102.7 | 103.8 |
| 39.....                     | 94.0                                     | 95.1  | 96.1  | 97.2  | 98.2  | 99.3  | 100.4 | 101.4 | 102.5 | 103.6 |
| 40.....                     | 93.8                                     | 94.9  | 95.9  | 97.0  | 98.0  | 99.1  | 100.2 | 101.2 | 102.3 | 103.4 |
| 41.....                     | 93.6                                     | 94.7  | 95.7  | 96.8  | 97.8  | 98.9  | 99.9  | 101.0 | 102.0 | 103.1 |
| 42.....                     | 93.4                                     | 94.5  | 95.5  | 96.6  | 97.6  | 98.7  | 99.7  | 100.8 | 101.8 | 102.9 |
| 43.....                     | 93.2                                     | 94.3  | 95.3  | 96.4  | 97.4  | 98.5  | 99.5  | 100.6 | 101.6 | 102.7 |
| 44.....                     | 93.0                                     | 94.1  | 95.1  | 96.2  | 97.2  | 98.2  | 99.3  | 100.3 | 101.4 | 102.5 |



TABLE 1.—Reduction of Observed Degrees A. P. I. to Degrees A. P. I. at 60° F.—Continued.

| Observed temperature in °F. | Observed degrees A. P. I.                |      |      |      |      |      |      |       |       |       |
|-----------------------------|------------------------------------------|------|------|------|------|------|------|-------|-------|-------|
|                             | 90                                       | 91   | 92   | 93   | 94   | 95   | 96   | 97    | 98    | 99    |
|                             | Corresponding degrees A. P. I. at 60° F. |      |      |      |      |      |      |       |       |       |
| 45.....                     | 92.8                                     | 93.9 | 94.9 | 95.9 | 97.0 | 98.0 | 99.1 | 100.1 | 101.2 | 102.2 |
| 46.....                     | 92.6                                     | 93.7 | 94.7 | 95.7 | 96.8 | 97.8 | 98.9 | 99.9  | 101.0 | 102.0 |
| 47.....                     | 92.4                                     | 93.5 | 94.5 | 95.5 | 96.6 | 97.6 | 98.7 | 99.7  | 100.7 | 101.8 |
| 48.....                     | 92.2                                     | 93.3 | 94.3 | 95.3 | 96.4 | 97.4 | 98.5 | 99.5  | 100.5 | 101.6 |
| 49.....                     | 92.0                                     | 93.1 | 94.1 | 95.1 | 96.2 | 97.2 | 98.2 | 99.3  | 100.3 | 101.3 |
| 50.....                     | 91.9                                     | 92.9 | 93.9 | 94.9 | 96.0 | 97.0 | 98.0 | 99.0  | 100.1 | 101.1 |
| 51.....                     | 91.7                                     | 92.7 | 93.7 | 94.8 | 95.8 | 96.8 | 97.8 | 98.8  | 99.9  | 100.9 |
| 52.....                     | 91.5                                     | 92.5 | 93.6 | 94.6 | 95.6 | 96.6 | 97.6 | 98.6  | 99.7  | 100.7 |
| 53.....                     | 91.3                                     | 92.3 | 93.4 | 94.4 | 95.4 | 96.4 | 97.4 | 98.4  | 99.5  | 100.5 |
| 54.....                     | 91.1                                     | 92.1 | 93.2 | 94.2 | 95.2 | 96.2 | 97.2 | 98.2  | 99.3  | 100.3 |
| 55.....                     | 90.9                                     | 91.9 | 93.0 | 94.0 | 95.0 | 96.0 | 97.0 | 98.0  | 99.0  | 100.1 |
| 56.....                     | 90.7                                     | 91.7 | 92.8 | 93.8 | 94.8 | 95.8 | 96.8 | 97.8  | 98.8  | 99.9  |
| 57.....                     | 90.5                                     | 91.5 | 92.6 | 93.6 | 94.6 | 95.6 | 96.6 | 97.6  | 98.6  | 99.6  |
| 58.....                     | 90.3                                     | 91.3 | 92.4 | 93.4 | 94.4 | 95.4 | 96.4 | 97.4  | 98.4  | 99.4  |
| 59.....                     | 90.2                                     | 91.2 | 92.2 | 93.2 | 94.2 | 95.2 | 96.2 | 97.2  | 98.2  | 99.2  |
| 60.....                     | 90.0                                     | 91.0 | 92.0 | 93.0 | 94.0 | 95.0 | 96.0 | 97.0  | 98.0  | 99.0  |
| 61.....                     | 89.8                                     | 90.8 | 91.8 | 92.8 | 93.8 | 94.8 | 95.8 | 96.8  | 97.8  | 98.8  |
| 62.....                     | 89.7                                     | 90.6 | 91.6 | 92.6 | 93.6 | 94.6 | 95.6 | 96.6  | 97.6  | 98.6  |
| 63.....                     | 89.4                                     | 90.4 | 91.4 | 92.4 | 93.4 | 94.4 | 95.4 | 96.4  | 97.4  | 98.4  |
| 64.....                     | 89.3                                     | 90.2 | 91.2 | 92.2 | 93.2 | 94.2 | 95.2 | 96.2  | 97.2  | 98.2  |
| 65.....                     | 89.1                                     | 90.0 | 91.0 | 92.0 | 93.0 | 94.0 | 95.0 | 96.0  | 97.0  | 98.0  |
| 66.....                     | 88.9                                     | 89.9 | 90.8 | 91.8 | 92.8 | 93.8 | 94.8 | 95.8  | 96.8  | 97.8  |
| 67.....                     | 88.7                                     | 89.7 | 90.7 | 91.6 | 92.6 | 93.6 | 94.6 | 95.6  | 96.6  | 97.5  |
| 68.....                     | 88.6                                     | 89.5 | 90.5 | 91.5 | 92.5 | 93.5 | 94.4 | 95.4  | 96.4  | 97.3  |
| 69.....                     | 88.4                                     | 89.4 | 90.3 | 91.3 | 92.3 | 93.3 | 94.2 | 95.2  | 96.2  | 97.1  |
| 70.....                     | 88.2                                     | 89.2 | 90.1 | 91.1 | 92.1 | 93.1 | 94.0 | 95.0  | 96.0  | 96.9  |
| 71.....                     | 88.0                                     | 89.0 | 89.9 | 90.9 | 91.9 | 92.9 | 93.8 | 94.8  | 95.8  | 96.7  |
| 72.....                     | 87.8                                     | 88.8 | 89.8 | 90.7 | 91.7 | 92.7 | 93.6 | 94.6  | 95.6  | 96.5  |
| 73.....                     | 87.7                                     | 88.6 | 89.6 | 90.6 | 91.5 | 92.5 | 93.4 | 94.4  | 95.4  | 96.3  |
| 74.....                     | 87.5                                     | 88.5 | 89.4 | 90.4 | 91.3 | 92.3 | 93.2 | 94.2  | 95.2  | 96.1  |
| 75.....                     | 87.3                                     | 88.3 | 89.2 | 90.2 | 91.2 | 92.1 | 93.1 | 94.0  | 95.0  | 96.0  |
| 76.....                     | 87.2                                     | 88.1 | 89.1 | 90.0 | 91.0 | 92.0 | 92.9 | 93.9  | 94.8  | 95.8  |
| 77.....                     | 87.0                                     | 87.9 | 88.9 | 89.8 | 90.8 | 91.8 | 92.7 | 93.7  | 94.6  | 95.6  |
| 78.....                     | 86.8                                     | 87.7 | 88.7 | 89.7 | 90.6 | 91.6 | 92.5 | 93.5  | 94.4  | 95.4  |
| 79.....                     | 86.6                                     | 87.6 | 88.5 | 89.5 | 90.4 | 91.4 | 92.3 | 93.3  | 94.2  | 95.2  |
| 80.....                     | 86.5                                     | 87.4 | 88.4 | 89.3 | 90.2 | 91.2 | 92.1 | 93.1  | 94.0  | 95.0  |
| 81.....                     | 86.3                                     | 87.2 | 88.2 | 89.1 | 90.1 | 91.0 | 91.9 | 92.9  | 93.8  | 94.8  |
| 82.....                     | 86.1                                     | 87.0 | 88.0 | 88.9 | 89.9 | 90.8 | 91.8 | 92.7  | 93.6  | 94.6  |
| 83.....                     | 86.0                                     | 86.9 | 87.8 | 88.8 | 89.7 | 90.7 | 91.6 | 92.5  | 93.4  | 94.4  |
| 84.....                     | 85.8                                     | 86.7 | 87.6 | 88.6 | 89.5 | 90.5 | 91.4 | 92.3  | 93.2  | 94.2  |
| 85.....                     | 85.6                                     | 86.5 | 87.5 | 88.4 | 89.4 | 90.3 | 91.2 | 92.2  | 93.1  | 94.0  |
| 86.....                     | 85.4                                     | 86.4 | 87.3 | 88.2 | 89.2 | 90.1 | 91.0 | 92.0  | 92.9  | 93.8  |
| 87.....                     | 85.3                                     | 86.2 | 87.1 | 88.0 | 89.0 | 89.9 | 90.8 | 91.8  | 92.7  | 93.6  |
| 88.....                     | 85.1                                     | 86.0 | 87.0 | 87.9 | 88.8 | 89.7 | 90.6 | 91.6  | 92.5  | 93.4  |
| 89.....                     | 84.9                                     | 85.9 | 86.8 | 87.7 | 88.6 | 89.6 | 90.5 | 91.4  | 92.3  | 93.2  |
| 90.....                     | 84.8                                     | 85.7 | 86.6 | 87.5 | 88.5 | 89.4 | 90.3 | 91.2  | 92.2  | 93.1  |

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TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature.

[This table shows the volume occupied at 60° F. by a quantity of oil of any A. P. I. gravity at 60° F. occupying unit volume at the indicated temperatures. For example, if at 60° F. the A. P. I. gravity of the oil is 22, 1 gallon of this oil measured at 105° F. will have a volume of 0.9822 gallons at 60° F. Intermediate values can conveniently be interpolated when necessary. The values given in the body of the table are in the form of "multipliers"; that is, the volume of oil at the indicated temperature and degrees A. P. I. multiplied by the corresponding factor in the table equals the volume at 60° F. For example, if the A. P. I. gravity of an oil at 60° F. equals 22.0 and the volume at 105° F. equals 5,600 gallons, then the volume at 60° F. equals  $5,600 \times 0.9822$ , or 5,500.32 gallons. This table can also be used to calculate the percentage change of volume to reduce to 60° F. The percentage factor is 100 times the difference between the tabulated value and unity. For example, in the case given above, the percentage factor is 100  $(1.0000 - 0.9822) = 1.78$ ; that is, any volume of an oil of 22.0 degrees A. P. I. at 60° F., measured at 105° F., will decrease in volume by 1.78 per cent on being reduced to a temperature of 60° F. For observed temperatures below 60° F. the volume correction should be added to the measured volumes; for temperatures above 60° F. it should be subtracted.]

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TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature.

| Observed temperature in °F. | Degrees A. P. I. at 60° F.                                        |        |        |        |        |        |        |        |        |        |
|-----------------------------|-------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0                                                                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
|                             | Volume at 60° F occupied by unit volume at indicated temperature. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 1.0193                                                            | 1.0196 | 1.0199 | 1.0202 | 1.0205 | 1.0208 | 1.0211 | 1.0214 | 1.0217 | 1.0220 |
| 1.....                      | 1.0190                                                            | 1.0193 | 1.0196 | 1.0199 | 1.0202 | 1.0205 | 1.0208 | 1.0211 | 1.0214 | 1.0217 |
| 2.....                      | 1.0186                                                            | 1.0189 | 1.0192 | 1.0195 | 1.0198 | 1.0201 | 1.0204 | 1.0207 | 1.0210 | 1.0213 |
| 3.....                      | 1.0183                                                            | 1.0186 | 1.0189 | 1.0192 | 1.0195 | 1.0198 | 1.0201 | 1.0204 | 1.0207 | 1.0210 |
| 4.....                      | 1.0180                                                            | 1.0182 | 1.0185 | 1.0188 | 1.0191 | 1.0194 | 1.0197 | 1.0200 | 1.0203 | 1.0206 |
| 5.....                      | 1.0177                                                            | 1.0179 | 1.0182 | 1.0185 | 1.0188 | 1.0191 | 1.0194 | 1.0196 | 1.0199 | 1.0202 |
| 6.....                      | 1.0174                                                            | 1.0176 | 1.0179 | 1.0182 | 1.0185 | 1.0188 | 1.0190 | 1.0192 | 1.0195 | 1.0198 |
| 7.....                      | 1.0170                                                            | 1.0172 | 1.0175 | 1.0178 | 1.0181 | 1.0184 | 1.0186 | 1.0188 | 1.0191 | 1.0194 |
| 8.....                      | 1.0167                                                            | 1.0169 | 1.0172 | 1.0175 | 1.0178 | 1.0181 | 1.0183 | 1.0185 | 1.0188 | 1.0191 |
| 9.....                      | 1.0164                                                            | 1.0166 | 1.0169 | 1.0172 | 1.0174 | 1.0177 | 1.0179 | 1.0181 | 1.0184 | 1.0187 |
| 10.....                     | 1.0161                                                            | 1.0163 | 1.0166 | 1.0169 | 1.0171 | 1.0174 | 1.0176 | 1.0178 | 1.0181 | 1.0183 |
| 11.....                     | 1.0157                                                            | 1.0159 | 1.0162 | 1.0165 | 1.0167 | 1.0170 | 1.0172 | 1.0174 | 1.0177 | 1.0179 |
| 12.....                     | 1.0154                                                            | 1.0156 | 1.0159 | 1.0162 | 1.0164 | 1.0166 | 1.0168 | 1.0170 | 1.0173 | 1.0175 |
| 13.....                     | 1.0151                                                            | 1.0153 | 1.0156 | 1.0159 | 1.0161 | 1.0163 | 1.0165 | 1.0167 | 1.0170 | 1.0172 |
| 14.....                     | 1.0148                                                            | 1.0150 | 1.0152 | 1.0155 | 1.0157 | 1.0159 | 1.0161 | 1.0163 | 1.0166 | 1.0168 |
| 15.....                     | 1.0145                                                            | 1.0147 | 1.0149 | 1.0152 | 1.0154 | 1.0156 | 1.0158 | 1.0160 | 1.0163 | 1.0165 |
| 16.....                     | 1.0141                                                            | 1.0143 | 1.0145 | 1.0148 | 1.0150 | 1.0152 | 1.0154 | 1.0156 | 1.0159 | 1.0161 |
| 17.....                     | 1.0138                                                            | 1.0140 | 1.0142 | 1.0145 | 1.0147 | 1.0149 | 1.0151 | 1.0153 | 1.0155 | 1.0157 |
| 18.....                     | 1.0135                                                            | 1.0137 | 1.0139 | 1.0141 | 1.0143 | 1.0145 | 1.0147 | 1.0149 | 1.0152 | 1.0154 |
| 19.....                     | 1.0132                                                            | 1.0134 | 1.0136 | 1.0138 | 1.0140 | 1.0142 | 1.0144 | 1.0146 | 1.0148 | 1.0150 |
| 20.....                     | 1.0129                                                            | 1.0131 | 1.0133 | 1.0135 | 1.0137 | 1.0139 | 1.0141 | 1.0143 | 1.0145 | 1.0147 |
| 21.....                     | 1.0125                                                            | 1.0127 | 1.0129 | 1.0131 | 1.0133 | 1.0135 | 1.0137 | 1.0139 | 1.0141 | 1.0143 |
| 22.....                     | 1.0122                                                            | 1.0124 | 1.0126 | 1.0128 | 1.0130 | 1.0132 | 1.0134 | 1.0136 | 1.0138 | 1.0139 |
| 23.....                     | 1.0119                                                            | 1.0120 | 1.0122 | 1.0124 | 1.0126 | 1.0128 | 1.0130 | 1.0132 | 1.0134 | 1.0136 |
| 24.....                     | 1.0116                                                            | 1.0117 | 1.0119 | 1.0121 | 1.0123 | 1.0125 | 1.0126 | 1.0128 | 1.0130 | 1.0132 |
| 25.....                     | 1.0113                                                            | 1.0114 | 1.0116 | 1.0118 | 1.0120 | 1.0122 | 1.0123 | 1.0125 | 1.0127 | 1.0128 |
| 26.....                     | 1.0109                                                            | 1.0110 | 1.0112 | 1.0114 | 1.0116 | 1.0118 | 1.0119 | 1.0121 | 1.0123 | 1.0124 |
| 27.....                     | 1.0106                                                            | 1.0107 | 1.0109 | 1.0111 | 1.0113 | 1.0115 | 1.0116 | 1.0118 | 1.0120 | 1.0121 |
| 28.....                     | 1.0103                                                            | 1.0104 | 1.0106 | 1.0107 | 1.0109 | 1.0111 | 1.0112 | 1.0114 | 1.0116 | 1.0117 |
| 29.....                     | 1.0100                                                            | 1.0101 | 1.0103 | 1.0104 | 1.0106 | 1.0108 | 1.0109 | 1.0111 | 1.0113 | 1.0114 |
| 30.....                     | 1.0097                                                            | 1.0098 | 1.0100 | 1.0101 | 1.0102 | 1.0104 | 1.0106 | 1.0107 | 1.0109 | 1.0110 |
| 31.....                     | 1.0094                                                            | 1.0095 | 1.0097 | 1.0098 | 1.0099 | 1.0101 | 1.0102 | 1.0104 | 1.0105 | 1.0106 |
| 32.....                     | 1.0090                                                            | 1.0091 | 1.0093 | 1.0094 | 1.0095 | 1.0097 | 1.0098 | 1.0100 | 1.0101 | 1.0102 |
| 33.....                     | 1.0087                                                            | 1.0088 | 1.0090 | 1.0091 | 1.0092 | 1.0094 | 1.0095 | 1.0097 | 1.0098 | 1.0099 |
| 34.....                     | 1.0084                                                            | 1.0085 | 1.0087 | 1.0088 | 1.0089 | 1.0091 | 1.0092 | 1.0093 | 1.0094 | 1.0095 |
| 35.....                     | 1.0081                                                            | 1.0082 | 1.0083 | 1.0084 | 1.0085 | 1.0087 | 1.0088 | 1.0089 | 1.0090 | 1.0091 |
| 36.....                     | 1.0078                                                            | 1.0079 | 1.0080 | 1.0081 | 1.0082 | 1.0083 | 1.0084 | 1.0085 | 1.0086 | 1.0087 |
| 37.....                     | 1.0075                                                            | 1.0076 | 1.0077 | 1.0078 | 1.0079 | 1.0080 | 1.0081 | 1.0082 | 1.0083 | 1.0084 |
| 38.....                     | 1.0071                                                            | 1.0072 | 1.0073 | 1.0074 | 1.0075 | 1.0076 | 1.0077 | 1.0078 | 1.0079 | 1.0080 |
| 39.....                     | 1.0068                                                            | 1.0069 | 1.0070 | 1.0071 | 1.0072 | 1.0073 | 1.0074 | 1.0075 | 1.0076 | 1.0077 |
| 40.....                     | 1.0065                                                            | 1.0066 | 1.0067 | 1.0067 | 1.0068 | 1.0069 | 1.0070 | 1.0071 | 1.0072 | 1.0073 |
| 41.....                     | 1.0062                                                            | 1.0063 | 1.0064 | 1.0064 | 1.0065 | 1.0066 | 1.0067 | 1.0068 | 1.0068 | 1.0069 |
| 42.....                     | 1.0059                                                            | 1.0059 | 1.0060 | 1.0060 | 1.0061 | 1.0062 | 1.0063 | 1.0064 | 1.0065 | 1.0065 |
| 43.....                     | 1.0055                                                            | 1.0056 | 1.0057 | 1.0057 | 1.0058 | 1.0059 | 1.0059 | 1.0060 | 1.0061 | 1.0061 |
| 44.....                     | 1.0052                                                            | 1.0052 | 1.0053 | 1.0053 | 1.0054 | 1.0055 | 1.0056 | 1.0057 | 1.0058 | 1.0058 |
| 45.....                     | 1.0049                                                            | 1.0049 | 1.0050 | 1.0050 | 1.0051 | 1.0052 | 1.0052 | 1.0053 | 1.0054 | 1.0054 |
| 46.....                     | 1.0046                                                            | 1.0046 | 1.0047 | 1.0047 | 1.0048 | 1.0049 | 1.0049 | 1.0049 | 1.0050 | 1.0050 |
| 47.....                     | 1.0043                                                            | 1.0043 | 1.0043 | 1.0044 | 1.0044 | 1.0045 | 1.0045 | 1.0046 | 1.0047 | 1.0047 |
| 48.....                     | 1.0039                                                            | 1.0040 | 1.0040 | 1.0041 | 1.0041 | 1.0042 | 1.0042 | 1.0042 | 1.0043 | 1.0043 |
| 49.....                     | 1.0036                                                            | 1.0036 | 1.0037 | 1.0037 | 1.0038 | 1.0038 | 1.0039 | 1.0039 | 1.0040 | 1.0040 |
| 50.....                     | 1.0033                                                            | 1.0033 | 1.0033 | 1.0034 | 1.0034 | 1.0035 | 1.0035 | 1.0035 | 1.0036 | 1.0036 |
| 51.....                     | 1.0030                                                            | 1.0030 | 1.0030 | 1.0031 | 1.0031 | 1.0032 | 1.0032 | 1.0032 | 1.0033 | 1.0033 |
| 52.....                     | 1.0026                                                            | 1.0026 | 1.0026 | 1.0027 | 1.0027 | 1.0028 | 1.0028 | 1.0028 | 1.0029 | 1.0029 |
| 53.....                     | 1.0023                                                            | 1.0023 | 1.0023 | 1.0024 | 1.0024 | 1.0025 | 1.0025 | 1.0025 | 1.0026 | 1.0026 |
| 54.....                     | 1.0019                                                            | 1.0019 | 1.0020 | 1.0020 | 1.0020 | 1.0021 | 1.0021 | 1.0021 | 1.0022 | 1.0022 |
| 55.....                     | 1.0016                                                            | 1.0016 | 1.0016 | 1.0017 | 1.0017 | 1.0017 | 1.0017 | 1.0017 | 1.0018 | 1.0018 |
| 56.....                     | 1.0013                                                            | 1.0013 | 1.0013 | 1.0014 | 1.0014 | 1.0014 | 1.0014 | 1.0014 | 1.0014 | 1.0014 |
| 57.....                     | 1.0009                                                            | 1.0009 | 1.0009 | 1.0010 | 1.0010 | 1.0010 | 1.0010 | 1.0010 | 1.0010 | 1.0011 |
| 58.....                     | 1.0006                                                            | 1.0006 | 1.0006 | 1.0007 | 1.0007 | 1.0007 | 1.0007 | 1.0007 | 1.0007 | 1.0007 |
| 59.....                     | 1.0003                                                            | 1.0003 | 1.0003 | 1.0003 | 1.0003 | 1.0003 | 1.0003 | 1.0003 | 1.0004 | 1.0004 |
| 60.....                     | 1.0000                                                            | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 61.....                     | .9997                                                             | .9997  | .9997  | .9997  | .9997  | .9997  | .9997  | .9997  | .9996  | .9996  |
| 62.....                     | .9993                                                             | .9993  | .9993  | .9993  | .9993  | .9993  | .9993  | .9993  | .9993  | .9993  |
| 63.....                     | .9990                                                             | .9990  | .9990  | .9990  | .9990  | .9990  | .9990  | .9990  | .9989  | .9989  |
| 64.....                     | .9987                                                             | .9987  | .9987  | .9987  | .9986  | .9986  | .9986  | .9986  | .9986  | .9986  |

TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature—Continued.

| Observed temperature in °F. | Degrees A. P. I. at 60° F.                                         |        |        |        |        |        |        |        |        |        |
|-----------------------------|--------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0                                                                  | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
|                             | Volume at 60° F. occupied by unit volume at indicated temperature. |        |        |        |        |        |        |        |        |        |
| 65.....                     | 0.9984                                                             | 0.9983 | 0.9983 | 0.9983 | 0.9983 | 0.9983 | 0.9982 | 0.9982 | 0.9982 | 0.9982 |
| 66.....                     | .9981                                                              | .9980  | .9980  | .9980  | .9980  | .9980  | .9979  | .9979  | .9979  | .9978  |
| 67.....                     | .9978                                                              | .9977  | .9977  | .9977  | .9976  | .9976  | .9976  | .9976  | .9975  | .9975  |
| 68.....                     | .9974                                                              | .9973  | .9973  | .9973  | .9973  | .9972  | .9972  | .9972  | .9971  | .9971  |
| 69.....                     | .9971                                                              | .9970  | .9970  | .9970  | .9969  | .9969  | .9969  | .9969  | .9968  | .9968  |
| 70.....                     | .9968                                                              | .9967  | .9967  | .9967  | .9966  | .9966  | .9965  | .9965  | .9965  | .9964  |
| 71.....                     | .9964                                                              | .9964  | .9963  | .9963  | .9963  | .9962  | .9962  | .9961  | .9961  | .9960  |
| 72.....                     | .9961                                                              | .9961  | .9960  | .9960  | .9959  | .9959  | .9958  | .9958  | .9958  | .9957  |
| 73.....                     | .9957                                                              | .9957  | .9956  | .9956  | .9956  | .9955  | .9955  | .9954  | .9954  | .9953  |
| 74.....                     | .9954                                                              | .9954  | .9953  | .9953  | .9952  | .9952  | .9952  | .9951  | .9951  | .9950  |
| 75.....                     | .9951                                                              | .9951  | .9950  | .9950  | .9949  | .9948  | .9948  | .9947  | .9947  | .9946  |
| 76.....                     | .9947                                                              | .9947  | .9946  | .9946  | .9945  | .9944  | .9944  | .9943  | .9943  | .9942  |
| 77.....                     | .9944                                                              | .9944  | .9943  | .9943  | .9942  | .9941  | .9941  | .9940  | .9940  | .9939  |
| 78.....                     | .9941                                                              | .9941  | .9940  | .9940  | .9939  | .9938  | .9938  | .9937  | .9936  | .9935  |
| 79.....                     | .9938                                                              | .9937  | .9936  | .9936  | .9935  | .9934  | .9934  | .9933  | .9933  | .9932  |
| 80.....                     | .9935                                                              | .9934  | .9933  | .9933  | .9932  | .9931  | .9931  | .9930  | .9929  | .9929  |
| 81.....                     | .9931                                                              | .9930  | .9929  | .9929  | .9928  | .9927  | .9927  | .9926  | .9925  | .9925  |
| 82.....                     | .9928                                                              | .9927  | .9926  | .9926  | .9925  | .9924  | .9924  | .9923  | .9922  | .9922  |
| 83.....                     | .9925                                                              | .9924  | .9923  | .9923  | .9922  | .9921  | .9920  | .9919  | .9918  | .9918  |
| 84.....                     | .9922                                                              | .9921  | .9920  | .9919  | .9918  | .9917  | .9917  | .9916  | .9915  | .9915  |
| 85.....                     | .9919                                                              | .9918  | .9917  | .9916  | .9915  | .9914  | .9914  | .9913  | .9912  | .9911  |
| 86.....                     | .9915                                                              | .9914  | .9913  | .9913  | .9912  | .9911  | .9910  | .9909  | .9908  | .9907  |
| 87.....                     | .9912                                                              | .9911  | .9910  | .9909  | .9908  | .9907  | .9907  | .9906  | .9905  | .9904  |
| 88.....                     | .9909                                                              | .9908  | .9907  | .9906  | .9905  | .9904  | .9903  | .9902  | .9901  | .9900  |
| 89.....                     | .9905                                                              | .9904  | .9903  | .9902  | .9901  | .9900  | .9900  | .9899  | .9898  | .9897  |
| 90.....                     | .9902                                                              | .9901  | .9900  | .9899  | .9898  | .9897  | .9896  | .9895  | .9894  | .9893  |
| 91.....                     | .9898                                                              | .9897  | .9896  | .9895  | .9894  | .9893  | .9892  | .9891  | .9890  | .9889  |
| 92.....                     | .9895                                                              | .9894  | .9893  | .9892  | .9891  | .9890  | .9889  | .9888  | .9887  | .9886  |
| 93.....                     | .9892                                                              | .9891  | .9890  | .9889  | .9888  | .9887  | .9886  | .9884  | .9883  | .9882  |
| 94.....                     | .9889                                                              | .9887  | .9886  | .9885  | .9884  | .9883  | .9882  | .9881  | .9880  | .9879  |
| 95.....                     | .9886                                                              | .9884  | .9883  | .9882  | .9881  | .9880  | .9879  | .9877  | .9876  | .9875  |
| 96.....                     | .9882                                                              | .9881  | .9880  | .9879  | .9878  | .9877  | .9876  | .9874  | .9873  | .9872  |
| 97.....                     | .9879                                                              | .9877  | .9876  | .9875  | .9874  | .9873  | .9872  | .9870  | .9869  | .9868  |
| 98.....                     | .9876                                                              | .9874  | .9873  | .9872  | .9871  | .9870  | .9869  | .9867  | .9866  | .9865  |
| 99.....                     | .9872                                                              | .9870  | .9869  | .9868  | .9867  | .9866  | .9865  | .9863  | .9862  | .9861  |
| 100.....                    | .9869                                                              | .9867  | .9866  | .9865  | .9864  | .9863  | .9862  | .9860  | .9859  | .9858  |
| 101.....                    | .9866                                                              | .9864  | .9863  | .9862  | .9860  | .9859  | .9858  | .9856  | .9855  | .9854  |
| 102.....                    | .9862                                                              | .9860  | .9859  | .9858  | .9857  | .9856  | .9855  | .9853  | .9852  | .9851  |
| 103.....                    | .9859                                                              | .9857  | .9856  | .9855  | .9854  | .9853  | .9852  | .9850  | .9848  | .9847  |
| 104.....                    | .9856                                                              | .9854  | .9853  | .9852  | .9850  | .9849  | .9848  | .9846  | .9845  | .9844  |
| 105.....                    | .9853                                                              | .9851  | .9850  | .9849  | .9847  | .9846  | .9844  | .9842  | .9841  | .9840  |
| 106.....                    | .9850                                                              | .9848  | .9847  | .9846  | .9844  | .9843  | .9841  | .9839  | .9837  | .9836  |
| 107.....                    | .9846                                                              | .9844  | .9843  | .9842  | .9840  | .9839  | .9837  | .9835  | .9834  | .9833  |
| 108.....                    | .9843                                                              | .9841  | .9840  | .9839  | .9837  | .9836  | .9834  | .9832  | .9831  | .9829  |
| 109.....                    | .9839                                                              | .9837  | .9836  | .9835  | .9833  | .9832  | .9831  | .9829  | .9828  | .9826  |
| 110.....                    | .9836                                                              | .9834  | .9833  | .9832  | .9830  | .9828  | .9827  | .9825  | .9824  | .9822  |
| 111.....                    | .9833                                                              | .9831  | .9830  | .9829  | .9827  | .9825  | .9823  | .9821  | .9820  | .9818  |
| 112.....                    | .9829                                                              | .9827  | .9826  | .9825  | .9823  | .9821  | .9820  | .9818  | .9817  | .9815  |
| 113.....                    | .9826                                                              | .9824  | .9823  | .9822  | .9820  | .9818  | .9816  | .9814  | .9813  | .9811  |
| 114.....                    | .9823                                                              | .9821  | .9820  | .9818  | .9816  | .9814  | .9813  | .9811  | .9810  | .9808  |
| 115.....                    | .9820                                                              | .9818  | .9817  | .9815  | .9813  | .9811  | .9809  | .9807  | .9806  | .9804  |
| 116.....                    | .9817                                                              | .9815  | .9814  | .9812  | .9810  | .9808  | .9806  | .9804  | .9803  | .9801  |
| 117.....                    | .9813                                                              | .9811  | .9810  | .9808  | .9806  | .9804  | .9802  | .9800  | .9799  | .9797  |
| 118.....                    | .9810                                                              | .9808  | .9807  | .9805  | .9803  | .9801  | .9799  | .9797  | .9796  | .9794  |
| 119.....                    | .9806                                                              | .9804  | .9803  | .9801  | .9799  | .9797  | .9795  | .9793  | .9792  | .9790  |
| 120.....                    | .9803                                                              | .9801  | .9800  | .9798  | .9796  | .9794  | .9792  | .9790  | .9789  | .9787  |
| 121.....                    | .9800                                                              | .9798  | .9797  | .9795  | .9793  | .9791  | .9789  | .9787  | .9785  | .9783  |
| 122.....                    | .9797                                                              | .9795  | .9793  | .9791  | .9789  | .9787  | .9785  | .9783  | .9782  | .9780  |
| 123.....                    | .9794                                                              | .9792  | .9790  | .9788  | .9786  | .9784  | .9782  | .9780  | .9778  | .9776  |
| 124.....                    | .9790                                                              | .9788  | .9787  | .9785  | .9783  | .9781  | .9779  | .9777  | .9775  | .9773  |
| 125.....                    | .9787                                                              | .9785  | .9783  | .9781  | .9779  | .9777  | .9775  | .9773  | .9771  | .9769  |
| 126.....                    | .9784                                                              | .9782  | .9780  | .9778  | .9776  | .9774  | .9772  | .9770  | .9768  | .9766  |
| 127.....                    | .9780                                                              | .9778  | .9776  | .9774  | .9772  | .9770  | .9768  | .9766  | .9764  | .9762  |
| 128.....                    | .9777                                                              | .9775  | .9773  | .9771  | .9769  | .9767  | .9765  | .9763  | .9761  | .9759  |
| 129.....                    | .9774                                                              | .9772  | .9770  | .9768  | .9766  | .9764  | .9762  | .9760  | .9758  | .9756  |



TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature—Continued.

| Observed tempera-<br>ture in °F. | Degrees A. P. I. at 60° F.                                        |        |        |        |        |        |        |        |        |        |
|----------------------------------|-------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                  | 0                                                                 | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
|                                  | Volume at 60° F occupied by unit volume at indicated temperature. |        |        |        |        |        |        |        |        |        |
| 130.....                         | 0.9770                                                            | 0.9768 | 0.9766 | 0.9764 | 0.9762 | 0.9760 | 0.9758 | 0.9756 | 0.9754 | 0.9752 |
| 131.....                         | .9767                                                             | .9765  | .9763  | .9761  | .9759  | .9757  | .9755  | .9753  | .9751  | .9748  |
| 132.....                         | .9763                                                             | .9761  | .9759  | .9757  | .9755  | .9753  | .9751  | .9749  | .9747  | .9745  |
| 133.....                         | .9760                                                             | .9758  | .9756  | .9754  | .9752  | .9750  | .9748  | .9746  | .9744  | .9741  |
| 134.....                         | .9757                                                             | .9755  | .9753  | .9751  | .9749  | .9747  | .9745  | .9743  | .9741  | .9738  |
| 135.....                         | .9753                                                             | .9751  | .9749  | .9747  | .9745  | .9743  | .9741  | .9739  | .9737  | .9734  |
| 136.....                         | .9750                                                             | .9748  | .9746  | .9744  | .9742  | .9740  | .9738  | .9736  | .9734  | .9731  |
| 137.....                         | .9747                                                             | .9745  | .9743  | .9741  | .9739  | .9737  | .9735  | .9733  | .9731  | .9728  |
| 138.....                         | .9743                                                             | .9741  | .9739  | .9737  | .9735  | .9733  | .9731  | .9729  | .9727  | .9724  |
| 139.....                         | .9740                                                             | .9738  | .9736  | .9734  | .9732  | .9730  | .9728  | .9726  | .9724  | .9721  |
| 140.....                         | .9736                                                             | .9734  | .9732  | .9730  | .9728  | .9726  | .9724  | .9722  | .9720  | .9717  |
| 141.....                         | .9733                                                             | .9731  | .9729  | .9727  | .9725  | .9723  | .9721  | .9719  | .9717  | .9714  |
| 142.....                         | .9730                                                             | .9728  | .9726  | .9724  | .9722  | .9720  | .9718  | .9716  | .9714  | .9711  |
| 143.....                         | .9726                                                             | .9724  | .9722  | .9720  | .9718  | .9716  | .9714  | .9712  | .9710  | .9707  |
| 144.....                         | .9723                                                             | .9721  | .9719  | .9717  | .9715  | .9713  | .9711  | .9709  | .9707  | .9704  |
| 145.....                         | .9719                                                             | .9717  | .9715  | .9713  | .9711  | .9709  | .9707  | .9705  | .9703  | .9700  |
| 146.....                         | .9716                                                             | .9714  | .9712  | .9710  | .9708  | .9706  | .9704  | .9702  | .9700  | .9697  |
| 147.....                         | .9713                                                             | .9711  | .9709  | .9707  | .9705  | .9703  | .9701  | .9699  | .9697  | .9694  |
| 148.....                         | .9709                                                             | .9707  | .9705  | .9703  | .9701  | .9699  | .9697  | .9695  | .9693  | .9690  |
| 149.....                         | .9706                                                             | .9704  | .9702  | .9700  | .9698  | .9696  | .9694  | .9692  | .9690  | .9687  |
| 150.....                         | .9703                                                             | .9701  | .9699  | .9697  | .9695  | .9693  | .9691  | .9689  | .9686  | .9683  |
| 151.....                         | .9699                                                             | .9697  | .9695  | .9693  | .9691  | .9689  | .9687  | .9685  | .9683  | .9680  |
| 152.....                         | .9696                                                             | .9694  | .9692  | .9690  | .9688  | .9686  | .9684  | .9682  | .9679  | .9676  |
| 153.....                         | .9692                                                             | .9690  | .9688  | .9686  | .9684  | .9682  | .9680  | .9678  | .9676  | .9673  |
| 154.....                         | .9689                                                             | .9687  | .9685  | .9683  | .9681  | .9679  | .9677  | .9675  | .9672  | .9669  |
| 155.....                         | .9686                                                             | .9684  | .9682  | .9680  | .9678  | .9676  | .9674  | .9672  | .9669  | .9666  |
| 156.....                         | .9682                                                             | .9680  | .9678  | .9676  | .9674  | .9672  | .9670  | .9668  | .9666  | .9663  |
| 157.....                         | .9679                                                             | .9677  | .9675  | .9673  | .9671  | .9669  | .9667  | .9665  | .9662  | .9659  |
| 158.....                         | .9676                                                             | .9674  | .9672  | .9670  | .9668  | .9666  | .9664  | .9662  | .9659  | .9656  |
| 159.....                         | .9672                                                             | .9670  | .9668  | .9666  | .9664  | .9662  | .9660  | .9658  | .9655  | .9652  |
| 160.....                         | .9669                                                             | .9667  | .9665  | .9663  | .9661  | .9659  | .9657  | .9655  | .9652  | .9649  |
| 161.....                         | .9666                                                             | .9664  | .9662  | .9660  | .9658  | .9656  | .9654  | .9652  | .9649  | .9646  |
| 162.....                         | .9662                                                             | .9660  | .9658  | .9656  | .9654  | .9652  | .9650  | .9648  | .9645  | .9642  |
| 163.....                         | .9659                                                             | .9657  | .9655  | .9653  | .9651  | .9649  | .9647  | .9645  | .9642  | .9639  |
| 164.....                         | .9655                                                             | .9653  | .9651  | .9649  | .9647  | .9645  | .9643  | .9641  | .9638  | .9635  |
| 165.....                         | .9652                                                             | .9650  | .9648  | .9646  | .9644  | .9642  | .9640  | .9638  | .9635  | .9632  |
| 166.....                         | .9649                                                             | .9647  | .9645  | .9643  | .9641  | .9639  | .9637  | .9635  | .9632  | .9629  |
| 167.....                         | .9645                                                             | .9643  | .9641  | .9639  | .9637  | .9635  | .9633  | .9631  | .9628  | .9625  |
| 168.....                         | .9642                                                             | .9640  | .9638  | .9636  | .9634  | .9632  | .9630  | .9628  | .9625  | .9622  |
| 169.....                         | .9639                                                             | .9637  | .9635  | .9633  | .9631  | .9629  | .9627  | .9624  | .9621  | .9618  |
| 170.....                         | .9635                                                             | .9633  | .9631  | .9629  | .9627  | .9625  | .9623  | .9621  | .9618  | .9615  |
| 171.....                         | .9632                                                             | .9630  | .9628  | .9626  | .9624  | .9622  | .9620  | .9618  | .9615  | .9612  |
| 172.....                         | .9628                                                             | .9626  | .9624  | .9622  | .9620  | .9618  | .9616  | .9614  | .9611  | .9608  |
| 173.....                         | .9625                                                             | .9623  | .9621  | .9619  | .9617  | .9615  | .9613  | .9611  | .9608  | .9605  |
| 174.....                         | .9622                                                             | .9620  | .9618  | .9616  | .9614  | .9612  | .9610  | .9607  | .9604  | .9601  |
| 175.....                         | .9618                                                             | .9616  | .9614  | .9612  | .9610  | .9608  | .9606  | .9604  | .9601  | .9598  |
| 176.....                         | .9615                                                             | .9613  | .9611  | .9609  | .9607  | .9605  | .9603  | .9601  | .9598  | .9595  |
| 177.....                         | .9612                                                             | .9610  | .9608  | .9606  | .9604  | .9602  | .9600  | .9597  | .9594  | .9591  |
| 178.....                         | .9608                                                             | .9606  | .9604  | .9602  | .9600  | .9598  | .9596  | .9594  | .9591  | .9588  |
| 179.....                         | .9605                                                             | .9603  | .9601  | .9599  | .9597  | .9595  | .9593  | .9591  | .9588  | .9585  |
| 180.....                         | .9602                                                             | .9600  | .9598  | .9596  | .9594  | .9592  | .9590  | .9588  | .9585  | .9582  |
| 181.....                         | .9598                                                             | .9596  | .9594  | .9592  | .9590  | .9588  | .9586  | .9584  | .9581  | .9578  |
| 182.....                         | .9595                                                             | .9593  | .9591  | .9589  | .9587  | .9585  | .9583  | .9580  | .9577  | .9574  |
| 183.....                         | .9592                                                             | .9590  | .9588  | .9586  | .9584  | .9582  | .9580  | .9577  | .9574  | .9571  |
| 184.....                         | .9588                                                             | .9586  | .9584  | .9582  | .9580  | .9578  | .9576  | .9574  | .9571  | .9568  |
| 185.....                         | .9585                                                             | .9583  | .9581  | .9579  | .9577  | .9575  | .9573  | .9571  | .9568  | .9565  |
| 186.....                         | .9581                                                             | .9579  | .9577  | .9575  | .9573  | .9571  | .9569  | .9567  | .9564  | .9561  |
| 187.....                         | .9578                                                             | .9576  | .9574  | .9572  | .9570  | .9568  | .9566  | .9563  | .9560  | .9557  |
| 188.....                         | .9575                                                             | .9573  | .9571  | .9569  | .9567  | .9565  | .9563  | .9560  | .9557  | .9554  |
| 189.....                         | .9571                                                             | .9569  | .9567  | .9565  | .9563  | .9561  | .9559  | .9557  | .9554  | .9551  |
| 190.....                         | .9568                                                             | .9566  | .9564  | .9562  | .9560  | .9558  | .9556  | .9554  | .9551  | .9548  |
| 191.....                         | .9565                                                             | .9563  | .9561  | .9559  | .9557  | .9555  | .9553  | .9550  | .9547  | .9544  |
| 192.....                         | .9561                                                             | .9559  | .9557  | .9555  | .9553  | .9551  | .9549  | .9546  | .9543  | .9540  |
| 193.....                         | .9558                                                             | .9556  | .9554  | .9552  | .9550  | .9548  | .9546  | .9543  | .9540  | .9537  |
| 194.....                         | .9555                                                             | .9553  | .9551  | .9549  | .9547  | .9545  | .9543  | .9540  | .9537  | .9534  |
| 195.....                         | .9551                                                             | .9549  | .9547  | .9545  | .9543  | .9541  | .9539  | .9537  | .9534  | .9531  |





TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature—Continued.

| Observed temperature in °F. | Degrees A. P. I. at 60° F.                                         |        |        |        |        |        |        |        |        |        |
|-----------------------------|--------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 10                                                                 | 11     | 12     | 13     | 14     | 15     | 16     | 17     | 18     | 19     |
|                             | Volume at 60° F. occupied by unit volume at indicated temperature. |        |        |        |        |        |        |        |        |        |
| 65.....                     | 0.9982                                                             | 0.9982 | 0.9982 | 0.9981 | 0.9981 | 0.9981 | 0.9981 | 0.9981 | 0.9980 | 0.9980 |
| 66.....                     | .9978                                                              | .9978  | .9978  | .9977  | .9977  | .9977  | .9977  | .9977  | .9976  | .9976  |
| 67.....                     | .9975                                                              | .9975  | .9974  | .9974  | .9973  | .9973  | .9973  | .9973  | .9972  | .9972  |
| 68.....                     | .9971                                                              | .9971  | .9971  | .9970  | .9970  | .9970  | .9970  | .9970  | .9969  | .9969  |
| 69.....                     | .9968                                                              | .9968  | .9967  | .9967  | .9966  | .9966  | .9966  | .9966  | .9965  | .9965  |
| 70.....                     | .9964                                                              | .9964  | .9963  | .9963  | .9962  | .9962  | .9962  | .9962  | .9961  | .9961  |
| 71.....                     | .9960                                                              | .9960  | .9959  | .9959  | .9958  | .9958  | .9958  | .9958  | .9957  | .9957  |
| 72.....                     | .9957                                                              | .9956  | .9956  | .9955  | .9955  | .9954  | .9954  | .9954  | .9953  | .9953  |
| 73.....                     | .9953                                                              | .9953  | .9952  | .9952  | .9951  | .9951  | .9951  | .9950  | .9950  | .9949  |
| 74.....                     | .9950                                                              | .9949  | .9949  | .9948  | .9948  | .9947  | .9947  | .9946  | .9946  | .9945  |
| 75.....                     | .9946                                                              | .9945  | .9945  | .9944  | .9944  | .9943  | .9943  | .9942  | .9942  | .9941  |
| 76.....                     | .9942                                                              | .9941  | .9941  | .9940  | .9940  | .9939  | .9939  | .9938  | .9938  | .9937  |
| 77.....                     | .9939                                                              | .9938  | .9938  | .9937  | .9937  | .9936  | .9935  | .9935  | .9934  | .9934  |
| 78.....                     | .9935                                                              | .9934  | .9934  | .9933  | .9933  | .9932  | .9932  | .9931  | .9931  | .9930  |
| 79.....                     | .9932                                                              | .9931  | .9931  | .9930  | .9930  | .9929  | .9928  | .9928  | .9927  | .9927  |
| 80.....                     | .9928                                                              | .9927  | .9927  | .9926  | .9926  | .9925  | .9924  | .9924  | .9923  | .9923  |
| 81.....                     | .9924                                                              | .9923  | .9923  | .9922  | .9922  | .9921  | .9920  | .9920  | .9919  | .9919  |
| 82.....                     | .9921                                                              | .9920  | .9919  | .9919  | .9918  | .9917  | .9916  | .9916  | .9915  | .9915  |
| 83.....                     | .9917                                                              | .9916  | .9916  | .9915  | .9915  | .9914  | .9913  | .9912  | .9912  | .9911  |
| 84.....                     | .9914                                                              | .9913  | .9912  | .9912  | .9911  | .9910  | .9909  | .9908  | .9908  | .9907  |
| 85.....                     | .9910                                                              | .9909  | .9908  | .9908  | .9907  | .9906  | .9905  | .9904  | .9904  | .9903  |
| 86.....                     | .9906                                                              | .9905  | .9904  | .9904  | .9903  | .9902  | .9901  | .9900  | .9900  | .9899  |
| 87.....                     | .9903                                                              | .9902  | .9901  | .9900  | .9899  | .9898  | .9897  | .9896  | .9896  | .9895  |
| 88.....                     | .9899                                                              | .9898  | .9897  | .9897  | .9896  | .9895  | .9894  | .9893  | .9893  | .9892  |
| 89.....                     | .9896                                                              | .9895  | .9894  | .9893  | .9892  | .9891  | .9890  | .9889  | .9889  | .9888  |
| 90.....                     | .9892                                                              | .9891  | .9890  | .9889  | .9888  | .9887  | .9886  | .9885  | .9885  | .9884  |
| 91.....                     | .9888                                                              | .9887  | .9886  | .9885  | .9884  | .9883  | .9882  | .9881  | .9881  | .9880  |
| 92.....                     | .9885                                                              | .9884  | .9883  | .9881  | .9880  | .9879  | .9878  | .9877  | .9877  | .9876  |
| 93.....                     | .9881                                                              | .9880  | .9879  | .9878  | .9877  | .9876  | .9875  | .9874  | .9873  | .9872  |
| 94.....                     | .9878                                                              | .9877  | .9876  | .9874  | .9873  | .9872  | .9871  | .9870  | .9869  | .9868  |
| 95.....                     | .9874                                                              | .9873  | .9872  | .9870  | .9869  | .9868  | .9867  | .9866  | .9865  | .9864  |
| 96.....                     | .9870                                                              | .9869  | .9868  | .9866  | .9865  | .9864  | .9863  | .9862  | .9861  | .9860  |
| 97.....                     | .9867                                                              | .9866  | .9865  | .9863  | .9862  | .9861  | .9860  | .9859  | .9857  | .9856  |
| 98.....                     | .9863                                                              | .9862  | .9861  | .9859  | .9858  | .9857  | .9856  | .9855  | .9854  | .9853  |
| 99.....                     | .9860                                                              | .9859  | .9858  | .9856  | .9855  | .9854  | .9853  | .9852  | .9850  | .9849  |
| 100.....                    | .9856                                                              | .9855  | .9854  | .9852  | .9851  | .9850  | .9849  | .9848  | .9846  | .9845  |
| 101.....                    | .9852                                                              | .9851  | .9850  | .9848  | .9847  | .9846  | .9845  | .9844  | .9842  | .9841  |
| 102.....                    | .9849                                                              | .9848  | .9846  | .9845  | .9843  | .9842  | .9841  | .9840  | .9838  | .9837  |
| 103.....                    | .9845                                                              | .9844  | .9843  | .9841  | .9840  | .9839  | .9838  | .9837  | .9835  | .9834  |
| 104.....                    | .9842                                                              | .9841  | .9839  | .9838  | .9836  | .9835  | .9834  | .9833  | .9831  | .9830  |
| 105.....                    | .9838                                                              | .9837  | .9835  | .9834  | .9832  | .9831  | .9830  | .9829  | .9827  | .9826  |
| 106.....                    | .9834                                                              | .9833  | .9831  | .9830  | .9828  | .9827  | .9826  | .9825  | .9823  | .9822  |
| 107.....                    | .9831                                                              | .9830  | .9828  | .9827  | .9825  | .9824  | .9823  | .9821  | .9820  | .9818  |
| 108.....                    | .9827                                                              | .9826  | .9824  | .9823  | .9821  | .9820  | .9819  | .9818  | .9816  | .9815  |
| 109.....                    | .9824                                                              | .9823  | .9821  | .9820  | .9818  | .9817  | .9816  | .9814  | .9813  | .9811  |
| 110.....                    | .9820                                                              | .9819  | .9817  | .9816  | .9814  | .9813  | .9812  | .9810  | .9809  | .9807  |
| 111.....                    | .9816                                                              | .9815  | .9813  | .9812  | .9810  | .9809  | .9808  | .9806  | .9805  | .9803  |
| 112.....                    | .9813                                                              | .9811  | .9810  | .9808  | .9807  | .9805  | .9804  | .9802  | .9801  | .9799  |
| 113.....                    | .9809                                                              | .9808  | .9806  | .9805  | .9803  | .9802  | .9800  | .9799  | .9797  | .9796  |
| 114.....                    | .9806                                                              | .9804  | .9803  | .9801  | .9800  | .9798  | .9796  | .9795  | .9793  | .9792  |
| 115.....                    | .9802                                                              | .9800  | .9799  | .9797  | .9796  | .9794  | .9792  | .9791  | .9789  | .9788  |
| 116.....                    | .9799                                                              | .9797  | .9795  | .9794  | .9792  | .9790  | .9788  | .9787  | .9785  | .9784  |
| 117.....                    | .9795                                                              | .9793  | .9792  | .9790  | .9789  | .9787  | .9785  | .9783  | .9782  | .9780  |
| 118.....                    | .9792                                                              | .9790  | .9788  | .9787  | .9785  | .9783  | .9781  | .9780  | .9778  | .9777  |
| 119.....                    | .9788                                                              | .9786  | .9785  | .9783  | .9782  | .9780  | .9778  | .9776  | .9775  | .9773  |
| 120.....                    | .9785                                                              | .9783  | .9781  | .9780  | .9778  | .9776  | .9774  | .9772  | .9771  | .9769  |
| 121.....                    | .9781                                                              | .9779  | .9777  | .9776  | .9774  | .9772  | .9770  | .9768  | .9767  | .9765  |
| 122.....                    | .9778                                                              | .9776  | .9774  | .9772  | .9770  | .9768  | .9766  | .9764  | .9763  | .9761  |
| 123.....                    | .9774                                                              | .9772  | .9770  | .9769  | .9767  | .9765  | .9763  | .9761  | .9760  | .9758  |
| 124.....                    | .9771                                                              | .9769  | .9767  | .9765  | .9763  | .9761  | .9759  | .9757  | .9756  | .9754  |
| 125.....                    | .9767                                                              | .9765  | .9763  | .9761  | .9759  | .9757  | .9755  | .9753  | .9752  | .9750  |
| 126.....                    | .9764                                                              | .9762  | .9760  | .9757  | .9755  | .9753  | .9751  | .9749  | .9748  | .9746  |
| 127.....                    | .9760                                                              | .9758  | .9756  | .9754  | .9752  | .9750  | .9748  | .9746  | .9744  | .9742  |
| 128.....                    | .9757                                                              | .9755  | .9753  | .9750  | .9748  | .9746  | .9744  | .9742  | .9741  | .9739  |
| 129.....                    | .9753                                                              | .9751  | .9749  | .9747  | .9745  | .9743  | .9741  | .9739  | .9737  | .9735  |

TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature—Continued.

| Observed temperature in °F. | Degrees A. P. I. at 60° F.                                         |        |        |        |        |        |        |        |        |        |
|-----------------------------|--------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 10                                                                 | 11     | 12     | 13     | 14     | 15     | 16     | 17     | 18     | 19     |
|                             | Volume at 60° F. occupied by unit volume at indicated temperature. |        |        |        |        |        |        |        |        |        |
| 130.....                    | 0.9750                                                             | 0.9748 | 0.9746 | 0.9743 | 0.9741 | 0.9739 | 0.9737 | 0.9735 | 0.9733 | 0.9731 |
| 131.....                    | .9746                                                              | .9744  | .9742  | .9739  | .9737  | .9735  | .9733  | .9731  | .9729  | .9727  |
| 132.....                    | .9743                                                              | .9741  | .9739  | .9736  | .9734  | .9732  | .9730  | .9728  | .9725  | .9723  |
| 133.....                    | .9739                                                              | .9737  | .9735  | .9732  | .9730  | .9728  | .9726  | .9724  | .9722  | .9720  |
| 134.....                    | .9736                                                              | .9734  | .9732  | .9729  | .9727  | .9725  | .9723  | .9721  | .9718  | .9716  |
| 135.....                    | .9732                                                              | .9730  | .9728  | .9725  | .9723  | .9721  | .9719  | .9717  | .9714  | .9712  |
| 136.....                    | .9729                                                              | .9727  | .9724  | .9722  | .9719  | .9717  | .9715  | .9713  | .9710  | .9708  |
| 137.....                    | .9725                                                              | .9723  | .9721  | .9718  | .9716  | .9714  | .9712  | .9709  | .9707  | .9704  |
| 138.....                    | .9722                                                              | .9720  | .9717  | .9715  | .9712  | .9710  | .9708  | .9706  | .9703  | .9701  |
| 139.....                    | .9718                                                              | .9716  | .9714  | .9711  | .9709  | .9707  | .9705  | .9702  | .9700  | .9697  |
| 140.....                    | .9715                                                              | .9713  | .9710  | .9708  | .9705  | .9703  | .9701  | .9698  | .9696  | .9693  |
| 141.....                    | .9712                                                              | .9709  | .9707  | .9704  | .9702  | .9699  | .9697  | .9694  | .9692  | .9689  |
| 142.....                    | .9708                                                              | .9706  | .9703  | .9701  | .9698  | .9696  | .9693  | .9691  | .9688  | .9686  |
| 143.....                    | .9705                                                              | .9702  | .9700  | .9697  | .9695  | .9692  | .9690  | .9687  | .9685  | .9682  |
| 144.....                    | .9701                                                              | .9699  | .9696  | .9694  | .9691  | .9689  | .9686  | .9684  | .9681  | .9679  |
| 145.....                    | .9698                                                              | .9695  | .9693  | .9690  | .9688  | .9685  | .9682  | .9680  | .9677  | .9675  |
| 146.....                    | .9694                                                              | .9691  | .9689  | .9686  | .9684  | .9681  | .9678  | .9676  | .9673  | .9671  |
| 147.....                    | .9691                                                              | .9688  | .9685  | .9683  | .9680  | .9677  | .9674  | .9672  | .9669  | .9667  |
| 148.....                    | .9687                                                              | .9684  | .9682  | .9679  | .9677  | .9674  | .9671  | .9669  | .9666  | .9664  |
| 149.....                    | .9684                                                              | .9681  | .9678  | .9676  | .9673  | .9670  | .9667  | .9665  | .9662  | .9660  |
| 150.....                    | .9680                                                              | .9677  | .9674  | .9672  | .9669  | .9666  | .9663  | .9661  | .9658  | .9656  |
| 151.....                    | .9677                                                              | .9674  | .9671  | .9668  | .9665  | .9662  | .9659  | .9657  | .9654  | .9652  |
| 152.....                    | .9673                                                              | .9670  | .9667  | .9665  | .9662  | .9659  | .9656  | .9653  | .9651  | .9648  |
| 153.....                    | .9670                                                              | .9667  | .9664  | .9661  | .9658  | .9655  | .9652  | .9650  | .9647  | .9645  |
| 154.....                    | .9666                                                              | .9663  | .9660  | .9658  | .9655  | .9652  | .9649  | .9646  | .9644  | .9641  |
| 155.....                    | .9663                                                              | .9660  | .9657  | .9654  | .9651  | .9648  | .9645  | .9642  | .9640  | .9637  |
| 156.....                    | .9660                                                              | .9657  | .9654  | .9650  | .9647  | .9644  | .9641  | .9638  | .9636  | .9633  |
| 157.....                    | .9656                                                              | .9653  | .9650  | .9647  | .9644  | .9641  | .9638  | .9635  | .9632  | .9629  |
| 158.....                    | .9653                                                              | .9650  | .9647  | .9643  | .9640  | .9637  | .9634  | .9631  | .9629  | .9626  |
| 159.....                    | .9649                                                              | .9646  | .9643  | .9640  | .9637  | .9634  | .9631  | .9628  | .9625  | .9622  |
| 160.....                    | .9646                                                              | .9643  | .9640  | .9636  | .9633  | .9630  | .9627  | .9624  | .9621  | .9618  |
| 161.....                    | .9643                                                              | .9640  | .9636  | .9633  | .9629  | .9626  | .9623  | .9620  | .9617  | .9614  |
| 162.....                    | .9639                                                              | .9636  | .9633  | .9629  | .9626  | .9623  | .9620  | .9617  | .9614  | .9611  |
| 163.....                    | .9636                                                              | .9633  | .9629  | .9626  | .9622  | .9619  | .9616  | .9613  | .9610  | .9607  |
| 164.....                    | .9632                                                              | .9629  | .9626  | .9622  | .9619  | .9616  | .9613  | .9610  | .9607  | .9604  |
| 165.....                    | .9629                                                              | .9626  | .9622  | .9619  | .9615  | .9612  | .9609  | .9606  | .9603  | .9600  |
| 166.....                    | .9626                                                              | .9622  | .9619  | .9615  | .9612  | .9608  | .9605  | .9602  | .9599  | .9596  |
| 167.....                    | .9622                                                              | .9619  | .9615  | .9612  | .9608  | .9605  | .9602  | .9599  | .9595  | .9592  |
| 168.....                    | .9619                                                              | .9615  | .9612  | .9608  | .9605  | .9601  | .9598  | .9595  | .9592  | .9589  |
| 169.....                    | .9615                                                              | .9612  | .9608  | .9605  | .9601  | .9598  | .9595  | .9592  | .9588  | .9585  |
| 170.....                    | .9612                                                              | .9608  | .9605  | .9601  | .9598  | .9594  | .9591  | .9588  | .9584  | .9581  |
| 171.....                    | .9609                                                              | .9605  | .9601  | .9598  | .9594  | .9590  | .9587  | .9584  | .9580  | .9577  |
| 172.....                    | .9605                                                              | .9601  | .9598  | .9594  | .9591  | .9587  | .9584  | .9580  | .9577  | .9573  |
| 173.....                    | .9602                                                              | .9598  | .9594  | .9591  | .9587  | .9583  | .9580  | .9577  | .9573  | .9570  |
| 174.....                    | .9598                                                              | .9594  | .9591  | .9587  | .9584  | .9580  | .9577  | .9573  | .9570  | .9566  |
| 175.....                    | .9595                                                              | .9591  | .9587  | .9584  | .9580  | .9576  | .9573  | .9569  | .9566  | .9562  |
| 176.....                    | .9592                                                              | .9588  | .9584  | .9580  | .9576  | .9572  | .9569  | .9565  | .9562  | .9558  |
| 177.....                    | .9588                                                              | .9584  | .9580  | .9577  | .9573  | .9569  | .9565  | .9562  | .9558  | .9555  |
| 178.....                    | .9585                                                              | .9581  | .9577  | .9573  | .9569  | .9565  | .9562  | .9558  | .9555  | .9551  |
| 179.....                    | .9581                                                              | .9577  | .9573  | .9570  | .9566  | .9562  | .9558  | .9555  | .9551  | .9548  |
| 180.....                    | .9578                                                              | .9574  | .9570  | .9566  | .9562  | .9558  | .9554  | .9551  | .9547  | .9544  |
| 181.....                    | .9575                                                              | .9571  | .9567  | .9563  | .9559  | .9555  | .9551  | .9547  | .9544  | .9540  |
| 182.....                    | .9571                                                              | .9567  | .9563  | .9559  | .9555  | .9551  | .9547  | .9544  | .9540  | .9537  |
| 183.....                    | .9568                                                              | .9564  | .9560  | .9556  | .9552  | .9548  | .9544  | .9540  | .9537  | .9533  |
| 184.....                    | .9564                                                              | .9560  | .9556  | .9552  | .9548  | .9544  | .9540  | .9537  | .9533  | .9530  |
| 185.....                    | .9561                                                              | .9557  | .9553  | .9549  | .9545  | .9541  | .9537  | .9533  | .9530  | .9526  |
| 186.....                    | .9558                                                              | .9554  | .9550  | .9545  | .9541  | .9537  | .9533  | .9529  | .9526  | .9522  |
| 187.....                    | .9554                                                              | .9550  | .9546  | .9542  | .9538  | .9534  | .9530  | .9526  | .9522  | .9518  |
| 188.....                    | .9551                                                              | .9547  | .9543  | .9538  | .9534  | .9530  | .9526  | .9522  | .9519  | .9515  |
| 189.....                    | .9547                                                              | .9543  | .9539  | .9535  | .9531  | .9527  | .9523  | .9519  | .9515  | .9511  |
| 190.....                    | .9544                                                              | .9540  | .9536  | .9531  | .9527  | .9523  | .9519  | .9515  | .9511  | .9507  |
| 191.....                    | .9541                                                              | .9537  | .9532  | .9528  | .9523  | .9519  | .9515  | .9511  | .9507  | .9503  |
| 192.....                    | .9537                                                              | .9533  | .9529  | .9524  | .9520  | .9516  | .9512  | .9508  | .9504  | .9500  |
| 193.....                    | .9534                                                              | .9530  | .9525  | .9521  | .9516  | .9512  | .9508  | .9504  | .9500  | .9496  |
| 194.....                    | .9530                                                              | .9526  | .9522  | .9517  | .9513  | .9509  | .9505  | .9501  | .9497  | .9493  |
| 195.....                    | .9527                                                              | .9523  | .9518  | .9514  | .9509  | .9505  | .9501  | .9497  | .9493  | .9489  |



TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature—Continued.

| Observed temperature in °F. | Degrees A. P. I. at 60° F.                                         |        |        |        |        |        |        |        |        |        |
|-----------------------------|--------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 20                                                                 | 21     | 22     | 23     | 24     | 25     | 26     | 27     | 28     | 29     |
|                             | Volume at 60° F. occupied by unit volume at indicated temperature. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 1.0239                                                             | 1.0241 | 1.0242 | 1.0244 | 1.0245 | 1.0247 | 1.0249 | 1.0250 | 1.0252 | 1.0254 |
| 1.....                      | 1.0235                                                             | 1.0237 | 1.0238 | 1.0240 | 1.0241 | 1.0243 | 1.0245 | 1.0246 | 1.0248 | 1.0250 |
| 2.....                      | 1.0231                                                             | 1.0233 | 1.0234 | 1.0236 | 1.0237 | 1.0239 | 1.0241 | 1.0243 | 1.0244 | 1.0245 |
| 3.....                      | 1.0227                                                             | 1.0228 | 1.0230 | 1.0231 | 1.0232 | 1.0234 | 1.0236 | 1.0237 | 1.0239 | 1.0241 |
| 4.....                      | 1.0223                                                             | 1.0224 | 1.0226 | 1.0227 | 1.0228 | 1.0230 | 1.0232 | 1.0233 | 1.0235 | 1.0236 |
| 5.....                      | 1.0219                                                             | 1.0220 | 1.0222 | 1.0223 | 1.0224 | 1.0226 | 1.0228 | 1.0229 | 1.0231 | 1.0232 |
| 6.....                      | 1.0215                                                             | 1.0216 | 1.0218 | 1.0219 | 1.0220 | 1.0222 | 1.0224 | 1.0225 | 1.0227 | 1.0228 |
| 7.....                      | 1.0211                                                             | 1.0212 | 1.0214 | 1.0215 | 1.0216 | 1.0218 | 1.0220 | 1.0221 | 1.0223 | 1.0224 |
| 8.....                      | 1.0207                                                             | 1.0208 | 1.0210 | 1.0211 | 1.0212 | 1.0213 | 1.0215 | 1.0216 | 1.0218 | 1.0219 |
| 9.....                      | 1.0203                                                             | 1.0204 | 1.0206 | 1.0207 | 1.0208 | 1.0209 | 1.0211 | 1.0212 | 1.0214 | 1.0215 |
| 10.....                     | 1.0199                                                             | 1.0200 | 1.0202 | 1.0203 | 1.0204 | 1.0205 | 1.0207 | 1.0208 | 1.0210 | 1.0211 |
| 11.....                     | 1.0195                                                             | 1.0196 | 1.0198 | 1.0199 | 1.0200 | 1.0201 | 1.0203 | 1.0204 | 1.0206 | 1.0207 |
| 12.....                     | 1.0191                                                             | 1.0192 | 1.0194 | 1.0195 | 1.0196 | 1.0197 | 1.0199 | 1.0200 | 1.0202 | 1.0203 |
| 13.....                     | 1.0187                                                             | 1.0188 | 1.0189 | 1.0190 | 1.0191 | 1.0192 | 1.0194 | 1.0195 | 1.0197 | 1.0198 |
| 14.....                     | 1.0183                                                             | 1.0184 | 1.0185 | 1.0186 | 1.0187 | 1.0188 | 1.0190 | 1.0191 | 1.0193 | 1.0194 |
| 15.....                     | 1.0179                                                             | 1.0180 | 1.0181 | 1.0182 | 1.0183 | 1.0184 | 1.0186 | 1.0187 | 1.0189 | 1.0190 |
| 16.....                     | 1.0175                                                             | 1.0176 | 1.0177 | 1.0178 | 1.0179 | 1.0180 | 1.0182 | 1.0183 | 1.0185 | 1.0186 |
| 17.....                     | 1.0171                                                             | 1.0172 | 1.0173 | 1.0174 | 1.0175 | 1.0176 | 1.0178 | 1.0179 | 1.0181 | 1.0182 |
| 18.....                     | 1.0167                                                             | 1.0168 | 1.0169 | 1.0170 | 1.0171 | 1.0172 | 1.0173 | 1.0175 | 1.0176 | 1.0177 |
| 19.....                     | 1.0163                                                             | 1.0164 | 1.0165 | 1.0166 | 1.0167 | 1.0168 | 1.0169 | 1.0171 | 1.0172 | 1.0173 |
| 20.....                     | 1.0159                                                             | 1.0160 | 1.0161 | 1.0162 | 1.0163 | 1.0164 | 1.0165 | 1.0167 | 1.0168 | 1.0169 |
| 21.....                     | 1.0155                                                             | 1.0156 | 1.0157 | 1.0158 | 1.0159 | 1.0160 | 1.0161 | 1.0163 | 1.0164 | 1.0165 |
| 22.....                     | 1.0151                                                             | 1.0152 | 1.0153 | 1.0154 | 1.0155 | 1.0156 | 1.0157 | 1.0159 | 1.0160 | 1.0161 |
| 23.....                     | 1.0147                                                             | 1.0148 | 1.0148 | 1.0149 | 1.0150 | 1.0151 | 1.0152 | 1.0154 | 1.0155 | 1.0156 |
| 24.....                     | 1.0143                                                             | 1.0144 | 1.0144 | 1.0145 | 1.0146 | 1.0147 | 1.0148 | 1.0150 | 1.0151 | 1.0152 |
| 25.....                     | 1.0139                                                             | 1.0140 | 1.0140 | 1.0141 | 1.0142 | 1.0143 | 1.0144 | 1.0146 | 1.0147 | 1.0148 |
| 26.....                     | 1.0135                                                             | 1.0136 | 1.0136 | 1.0137 | 1.0138 | 1.0139 | 1.0140 | 1.0142 | 1.0143 | 1.0144 |
| 27.....                     | 1.0131                                                             | 1.0132 | 1.0132 | 1.0133 | 1.0134 | 1.0135 | 1.0136 | 1.0138 | 1.0139 | 1.0140 |
| 28.....                     | 1.0127                                                             | 1.0128 | 1.0128 | 1.0129 | 1.0130 | 1.0131 | 1.0132 | 1.0133 | 1.0134 | 1.0135 |
| 29.....                     | 1.0123                                                             | 1.0124 | 1.0124 | 1.0125 | 1.0126 | 1.0127 | 1.0128 | 1.0129 | 1.0130 | 1.0131 |
| 30.....                     | 1.0119                                                             | 1.0120 | 1.0120 | 1.0121 | 1.0122 | 1.0123 | 1.0124 | 1.0125 | 1.0126 | 1.0127 |
| 31.....                     | 1.0115                                                             | 1.0116 | 1.0116 | 1.0117 | 1.0118 | 1.0119 | 1.0120 | 1.0121 | 1.0122 | 1.0123 |
| 32.....                     | 1.0111                                                             | 1.0112 | 1.0112 | 1.0113 | 1.0114 | 1.0115 | 1.0116 | 1.0117 | 1.0118 | 1.0118 |
| 33.....                     | 1.0107                                                             | 1.0108 | 1.0108 | 1.0109 | 1.0109 | 1.0110 | 1.0111 | 1.0112 | 1.0113 | 1.0114 |
| 34.....                     | 1.0103                                                             | 1.0104 | 1.0104 | 1.0105 | 1.0105 | 1.0106 | 1.0107 | 1.0108 | 1.0109 | 1.0109 |
| 35.....                     | 1.0099                                                             | 1.0100 | 1.0100 | 1.0101 | 1.0101 | 1.0102 | 1.0103 | 1.0104 | 1.0105 | 1.0105 |
| 36.....                     | 1.0095                                                             | 1.0096 | 1.0096 | 1.0097 | 1.0097 | 1.0098 | 1.0099 | 1.0100 | 1.0101 | 1.0101 |
| 37.....                     | 1.0091                                                             | 1.0092 | 1.0092 | 1.0093 | 1.0093 | 1.0094 | 1.0095 | 1.0096 | 1.0097 | 1.0097 |
| 38.....                     | 1.0087                                                             | 1.0088 | 1.0088 | 1.0089 | 1.0089 | 1.0090 | 1.0091 | 1.0091 | 1.0092 | 1.0092 |
| 39.....                     | 1.0083                                                             | 1.0084 | 1.0084 | 1.0085 | 1.0085 | 1.0086 | 1.0087 | 1.0087 | 1.0088 | 1.0088 |
| 40.....                     | 1.0079                                                             | 1.0080 | 1.0080 | 1.0081 | 1.0081 | 1.0082 | 1.0083 | 1.0083 | 1.0084 | 1.0084 |
| 41.....                     | 1.0075                                                             | 1.0076 | 1.0076 | 1.0077 | 1.0077 | 1.0078 | 1.0079 | 1.0079 | 1.0080 | 1.0080 |
| 42.....                     | 1.0071                                                             | 1.0072 | 1.0072 | 1.0073 | 1.0073 | 1.0074 | 1.0075 | 1.0075 | 1.0076 | 1.0076 |
| 43.....                     | 1.0067                                                             | 1.0067 | 1.0068 | 1.0068 | 1.0069 | 1.0069 | 1.0070 | 1.0070 | 1.0071 | 1.0071 |
| 44.....                     | 1.0063                                                             | 1.0063 | 1.0064 | 1.0064 | 1.0064 | 1.0065 | 1.0066 | 1.0066 | 1.0067 | 1.0067 |
| 45.....                     | 1.0059                                                             | 1.0059 | 1.0060 | 1.0060 | 1.0060 | 1.0061 | 1.0062 | 1.0062 | 1.0063 | 1.0063 |
| 46.....                     | 1.0055                                                             | 1.0055 | 1.0056 | 1.0056 | 1.0056 | 1.0057 | 1.0058 | 1.0058 | 1.0059 | 1.0059 |
| 47.....                     | 1.0051                                                             | 1.0051 | 1.0052 | 1.0052 | 1.0052 | 1.0053 | 1.0054 | 1.0054 | 1.0055 | 1.0055 |
| 48.....                     | 1.0047                                                             | 1.0047 | 1.0048 | 1.0048 | 1.0048 | 1.0049 | 1.0049 | 1.0050 | 1.0050 | 1.0050 |
| 49.....                     | 1.0043                                                             | 1.0043 | 1.0044 | 1.0044 | 1.0044 | 1.0045 | 1.0045 | 1.0046 | 1.0046 | 1.0046 |
| 50.....                     | 1.0039                                                             | 1.0039 | 1.0040 | 1.0040 | 1.0040 | 1.0041 | 1.0041 | 1.0042 | 1.0042 | 1.0042 |
| 51.....                     | 1.0035                                                             | 1.0035 | 1.0036 | 1.0036 | 1.0036 | 1.0037 | 1.0037 | 1.0038 | 1.0038 | 1.0038 |
| 52.....                     | 1.0031                                                             | 1.0031 | 1.0032 | 1.0032 | 1.0032 | 1.0033 | 1.0033 | 1.0034 | 1.0034 | 1.0034 |
| 53.....                     | 1.0023                                                             | 1.0028 | 1.0028 | 1.0028 | 1.0028 | 1.0028 | 1.0028 | 1.0029 | 1.0029 | 1.0029 |
| 54.....                     | 1.0024                                                             | 1.0024 | 1.0024 | 1.0024 | 1.0024 | 1.0024 | 1.0024 | 1.0025 | 1.0025 | 1.0025 |
| 55.....                     | 1.0020                                                             | 1.0020 | 1.0020 | 1.0020 | 1.0020 | 1.0020 | 1.0020 | 1.0021 | 1.0021 | 1.0021 |
| 56.....                     | 1.0016                                                             | 1.0016 | 1.0016 | 1.0016 | 1.0016 | 1.0016 | 1.0016 | 1.0017 | 1.0017 | 1.0017 |
| 57.....                     | 1.0012                                                             | 1.0012 | 1.0012 | 1.0012 | 1.0012 | 1.0012 | 1.0012 | 1.0013 | 1.0013 | 1.0013 |
| 58.....                     | 1.0008                                                             | 1.0008 | 1.0008 | 1.0008 | 1.0008 | 1.0008 | 1.0008 | 1.0008 | 1.0008 | 1.0008 |
| 59.....                     | 1.0004                                                             | 1.0004 | 1.0004 | 1.0004 | 1.0004 | 1.0004 | 1.0004 | 1.0004 | 1.0004 | 1.0004 |
| 60.....                     | 1.0000                                                             | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 61.....                     | .9996                                                              | .9996  | .9996  | .9996  | .9996  | .9996  | .9996  | .9996  | .9996  | .9996  |
| 62.....                     | .9992                                                              | .9992  | .9992  | .9992  | .9992  | .9992  | .9992  | .9992  | .9992  | .9992  |
| 63.....                     | .9988                                                              | .9988  | .9988  | .9988  | .9988  | .9988  | .9988  | .9987  | .9987  | .9987  |
| 64.....                     | .9984                                                              | .9984  | .9984  | .9984  | .9984  | .9984  | .9984  | .9983  | .9983  | .9983  |



TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature—Continued.

| Observed temperature in °F. | Degrees A. P. I. at 60° F.                                         |        |        |        |        |        |        |        |        |        |
|-----------------------------|--------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 20                                                                 | 21     | 22     | 23     | 24     | 25     | 26     | 27     | 28     | 29     |
|                             | Volume at 60° F. occupied by unit volume at indicated temperature. |        |        |        |        |        |        |        |        |        |
| 65.....                     | 0.9980                                                             | 0.9980 | 0.9980 | 0.9980 | 0.9980 | 0.9980 | 0.9980 | 0.9979 | 0.9979 | 0.9979 |
| 66.....                     | .9976                                                              | .9976  | .9976  | .9976  | .9976  | .9976  | .9976  | .9975  | .9975  | .9975  |
| 67.....                     | .9972                                                              | .9972  | .9972  | .9972  | .9972  | .9972  | .9972  | .9971  | .9971  | .9971  |
| 68.....                     | .9969                                                              | .9969  | .9968  | .9968  | .9968  | .9967  | .9967  | .9966  | .9966  | .9966  |
| 69.....                     | .9965                                                              | .9965  | .9964  | .9964  | .9964  | .9963  | .9963  | .9962  | .9962  | .9962  |
| 70.....                     | .9961                                                              | .9961  | .9960  | .9960  | .9960  | .9959  | .9959  | .9958  | .9958  | .9958  |
| 71.....                     | .9957                                                              | .9957  | .9956  | .9956  | .9956  | .9955  | .9955  | .9954  | .9954  | .9954  |
| 72.....                     | .9953                                                              | .9953  | .9952  | .9952  | .9952  | .9951  | .9951  | .9950  | .9950  | .9950  |
| 73.....                     | .9949                                                              | .9949  | .9948  | .9948  | .9948  | .9947  | .9947  | .9946  | .9946  | .9946  |
| 74.....                     | .9945                                                              | .9945  | .9944  | .9944  | .9944  | .9943  | .9943  | .9942  | .9942  | .9942  |
| 75.....                     | .9941                                                              | .9941  | .9940  | .9940  | .9940  | .9939  | .9939  | .9938  | .9938  | .9938  |
| 76.....                     | .9937                                                              | .9937  | .9936  | .9936  | .9936  | .9935  | .9935  | .9934  | .9934  | .9934  |
| 77.....                     | .9933                                                              | .9933  | .9932  | .9932  | .9932  | .9931  | .9931  | .9930  | .9930  | .9929  |
| 78.....                     | .9930                                                              | .9929  | .9929  | .9928  | .9928  | .9927  | .9926  | .9926  | .9925  | .9925  |
| 79.....                     | .9926                                                              | .9925  | .9925  | .9924  | .9924  | .9923  | .9922  | .9922  | .9921  | .9920  |
| 80.....                     | .9922                                                              | .9921  | .9921  | .9920  | .9920  | .9919  | .9918  | .9918  | .9917  | .9916  |
| 81.....                     | .9918                                                              | .9917  | .9917  | .9916  | .9916  | .9915  | .9914  | .9914  | .9913  | .9912  |
| 82.....                     | .9914                                                              | .9913  | .9913  | .9912  | .9912  | .9911  | .9910  | .9910  | .9909  | .9908  |
| 83.....                     | .9910                                                              | .9909  | .9909  | .9908  | .9908  | .9907  | .9906  | .9905  | .9904  | .9903  |
| 84.....                     | .9906                                                              | .9905  | .9905  | .9904  | .9904  | .9903  | .9902  | .9901  | .9900  | .9899  |
| 85.....                     | .9902                                                              | .9901  | .9901  | .9900  | .9900  | .9899  | .9898  | .9897  | .9896  | .9895  |
| 86.....                     | .9898                                                              | .9897  | .9897  | .9896  | .9896  | .9895  | .9894  | .9893  | .9892  | .9891  |
| 87.....                     | .9894                                                              | .9893  | .9893  | .9892  | .9892  | .9891  | .9890  | .9889  | .9888  | .9887  |
| 88.....                     | .9891                                                              | .9890  | .9889  | .9888  | .9887  | .9886  | .9885  | .9884  | .9883  | .9882  |
| 89.....                     | .9887                                                              | .9886  | .9885  | .9884  | .9883  | .9882  | .9881  | .9880  | .9879  | .9878  |
| 90.....                     | .9883                                                              | .9882  | .9881  | .9880  | .9879  | .9878  | .9877  | .9876  | .9875  | .9874  |
| 91.....                     | .9879                                                              | .9878  | .9877  | .9876  | .9875  | .9874  | .9873  | .9872  | .9871  | .9870  |
| 92.....                     | .9875                                                              | .9874  | .9873  | .9872  | .9871  | .9870  | .9869  | .9868  | .9867  | .9866  |
| 93.....                     | .9871                                                              | .9870  | .9869  | .9868  | .9867  | .9866  | .9865  | .9864  | .9863  | .9862  |
| 94.....                     | .9867                                                              | .9866  | .9865  | .9864  | .9863  | .9862  | .9861  | .9860  | .9859  | .9858  |
| 95.....                     | .9863                                                              | .9862  | .9861  | .9860  | .9859  | .9858  | .9857  | .9856  | .9855  | .9854  |
| 96.....                     | .9859                                                              | .9858  | .9857  | .9856  | .9855  | .9854  | .9853  | .9852  | .9851  | .9850  |
| 97.....                     | .9855                                                              | .9854  | .9853  | .9852  | .9851  | .9850  | .9849  | .9848  | .9847  | .9846  |
| 98.....                     | .9852                                                              | .9851  | .9849  | .9848  | .9847  | .9846  | .9845  | .9843  | .9842  | .9841  |
| 99.....                     | .9848                                                              | .9847  | .9845  | .9844  | .9843  | .9842  | .9841  | .9839  | .9838  | .9837  |
| 100.....                    | .9844                                                              | .9843  | .9841  | .9840  | .9839  | .9838  | .9837  | .9835  | .9834  | .9833  |
| 101.....                    | .9840                                                              | .9839  | .9837  | .9836  | .9835  | .9834  | .9833  | .9831  | .9830  | .9829  |
| 102.....                    | .9836                                                              | .9835  | .9833  | .9832  | .9831  | .9830  | .9829  | .9827  | .9826  | .9823  |
| 103.....                    | .9833                                                              | .9832  | .9830  | .9829  | .9828  | .9826  | .9824  | .9823  | .9821  | .9820  |
| 104.....                    | .9829                                                              | .9828  | .9826  | .9825  | .9824  | .9822  | .9820  | .9819  | .9817  | .9816  |
| 105.....                    | .9825                                                              | .9824  | .9822  | .9821  | .9820  | .9818  | .9816  | .9815  | .9813  | .9812  |
| 106.....                    | .9821                                                              | .9820  | .9818  | .9817  | .9816  | .9814  | .9812  | .9811  | .9809  | .9808  |
| 107.....                    | .9817                                                              | .9816  | .9814  | .9813  | .9812  | .9810  | .9808  | .9807  | .9805  | .9804  |
| 108.....                    | .9814                                                              | .9812  | .9811  | .9809  | .9808  | .9806  | .9804  | .9803  | .9801  | .9799  |
| 109.....                    | .9810                                                              | .9808  | .9807  | .9805  | .9804  | .9802  | .9800  | .9799  | .9797  | .9795  |
| 110.....                    | .9806                                                              | .9804  | .9803  | .9801  | .9800  | .9798  | .9796  | .9795  | .9793  | .9791  |
| 111.....                    | .9802                                                              | .9800  | .9799  | .9797  | .9796  | .9794  | .9792  | .9791  | .9789  | .9787  |
| 112.....                    | .9798                                                              | .9796  | .9795  | .9793  | .9792  | .9790  | .9788  | .9787  | .9785  | .9783  |
| 113.....                    | .9794                                                              | .9792  | .9791  | .9789  | .9788  | .9786  | .9784  | .9782  | .9780  | .9778  |
| 114.....                    | .9790                                                              | .9788  | .9787  | .9785  | .9784  | .9782  | .9780  | .9778  | .9776  | .9774  |
| 115.....                    | .9786                                                              | .9784  | .9783  | .9781  | .9780  | .9778  | .9776  | .9774  | .9772  | .9770  |
| 116.....                    | .9782                                                              | .9780  | .9779  | .9777  | .9776  | .9774  | .9772  | .9770  | .9768  | .9766  |
| 117.....                    | .9778                                                              | .9776  | .9775  | .9773  | .9772  | .9770  | .9768  | .9766  | .9764  | .9762  |
| 118.....                    | .9775                                                              | .9773  | .9771  | .9769  | .9768  | .9766  | .9764  | .9761  | .9759  | .9757  |
| 119.....                    | .9771                                                              | .9769  | .9767  | .9765  | .9764  | .9762  | .9760  | .9757  | .9755  | .9753  |
| 120.....                    | .9767                                                              | .9765  | .9763  | .9761  | .9760  | .9758  | .9756  | .9753  | .9751  | .9749  |
| 121.....                    | .9763                                                              | .9761  | .9759  | .9757  | .9756  | .9754  | .9752  | .9749  | .9747  | .9745  |
| 122.....                    | .9759                                                              | .9757  | .9755  | .9753  | .9752  | .9750  | .9748  | .9745  | .9743  | .9741  |
| 123.....                    | .9756                                                              | .9754  | .9752  | .9750  | .9748  | .9746  | .9744  | .9741  | .9739  | .9737  |
| 124.....                    | .9752                                                              | .9750  | .9748  | .9746  | .9744  | .9742  | .9740  | .9737  | .9735  | .9733  |
| 125.....                    | .9748                                                              | .9746  | .9744  | .9742  | .9740  | .9738  | .9736  | .9733  | .9731  | .9729  |
| 126.....                    | .9744                                                              | .9742  | .9740  | .9738  | .9736  | .9734  | .9732  | .9729  | .9727  | .9725  |
| 127.....                    | .9740                                                              | .9738  | .9736  | .9734  | .9732  | .9730  | .9728  | .9725  | .9723  | .9721  |
| 128.....                    | .9737                                                              | .9735  | .9732  | .9730  | .9728  | .9726  | .9723  | .9721  | .9718  | .9716  |
| 129.....                    | .9733                                                              | .9731  | .9728  | .9726  | .9724  | .9722  | .9719  | .9717  | .9714  | .9712  |

TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature—Continued.

| Observed temperature in ° F. | Degrees A. P. I. at 60°F.                                          |        |        |        |        |        |        |        |        |        |
|------------------------------|--------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 20                                                                 | 21     | 22     | 23     | 24     | 25     | 26     | 27     | 28     | 29     |
|                              | Volume at 60° F. occupied by unit volume at indicated temperature. |        |        |        |        |        |        |        |        |        |
| 130.....                     | 0.9729                                                             | 0.9727 | 0.9724 | 0.9722 | 0.9720 | 0.9718 | 0.9715 | 0.9713 | 0.9710 | 0.9708 |
| 131.....                     | .9725                                                              | .9723  | .9720  | .9718  | .9716  | .9714  | .9711  | .9709  | .9706  | .9704  |
| 132.....                     | .9721                                                              | .9719  | .9716  | .9714  | .9712  | .9710  | .9707  | .9705  | .9702  | .9700  |
| 133.....                     | .9718                                                              | .9716  | .9713  | .9711  | .9709  | .9707  | .9704  | .9701  | .9698  | .9695  |
| 134.....                     | .9714                                                              | .9712  | .9709  | .9707  | .9705  | .9703  | .9700  | .9697  | .9694  | .9691  |
| 135.....                     | .9710                                                              | .9708  | .9705  | .9703  | .9701  | .9699  | .9696  | .9693  | .9690  | .9687  |
| 136.....                     | .9706                                                              | .9704  | .9701  | .9699  | .9697  | .9695  | .9692  | .9689  | .9686  | .9683  |
| 137.....                     | .9702                                                              | .9700  | .9697  | .9695  | .9693  | .9691  | .9688  | .9685  | .9682  | .9679  |
| 138.....                     | .9699                                                              | .9696  | .9694  | .9691  | .9689  | .9687  | .9684  | .9681  | .9678  | .9675  |
| 139.....                     | .9695                                                              | .9692  | .9690  | .9687  | .9685  | .9683  | .9680  | .9677  | .9674  | .9671  |
| 140.....                     | .9691                                                              | .9688  | .9686  | .9683  | .9681  | .9679  | .9676  | .9673  | .9670  | .9667  |
| 141.....                     | .9687                                                              | .9684  | .9682  | .9679  | .9677  | .9675  | .9672  | .9669  | .9666  | .9663  |
| 142.....                     | .9683                                                              | .9680  | .9678  | .9675  | .9673  | .9571  | .9668  | .9665  | .9662  | .9659  |
| 143.....                     | .9680                                                              | .9677  | .9675  | .9672  | .9670  | .9667  | .9664  | .9660  | .9657  | .9654  |
| 144.....                     | .9676                                                              | .9673  | .9671  | .9668  | .9666  | .9663  | .9660  | .9656  | .9653  | .9650  |
| 145.....                     | .9672                                                              | .9669  | .9667  | .9664  | .9662  | .9659  | .9656  | .9652  | .9649  | .9646  |
| 146.....                     | .9668                                                              | .9665  | .9663  | .9660  | .9658  | .9655  | .9652  | .9648  | .9645  | .9642  |
| 147.....                     | .9664                                                              | .9661  | .9659  | .9656  | .9654  | .9651  | .9648  | .9644  | .9641  | .9638  |
| 148.....                     | .9661                                                              | .9658  | .9655  | .9652  | .9650  | .9647  | .9644  | .9640  | .9636  | .9633  |
| 149.....                     | .9657                                                              | .9654  | .9651  | .9648  | .9646  | .9643  | .9639  | .9636  | .9632  | .9629  |
| 150.....                     | .9653                                                              | .9650  | .9647  | .9644  | .9642  | .9639  | .9635  | .9632  | .9628  | .9625  |
| 151.....                     | .9649                                                              | .9646  | .9643  | .9640  | .9638  | .9635  | .9631  | .9628  | .9624  | .9621  |
| 152.....                     | .9645                                                              | .9642  | .9639  | .9636  | .9634  | .9631  | .9627  | .9624  | .9620  | .9617  |
| 153.....                     | .9642                                                              | .9639  | .9636  | .9633  | .9631  | .9628  | .9624  | .9620  | .9616  | .9613  |
| 154.....                     | .9638                                                              | .9635  | .9632  | .9629  | .9627  | .9624  | .9620  | .9616  | .9612  | .9609  |
| 155.....                     | .9634                                                              | .9631  | .9628  | .9625  | .9623  | .9620  | .9616  | .9612  | .9608  | .9605  |
| 156.....                     | .9630                                                              | .9627  | .9624  | .9621  | .9619  | .9616  | .9612  | .9608  | .9604  | .9601  |
| 157.....                     | .9626                                                              | .9623  | .9620  | .9617  | .9615  | .9612  | .9608  | .9604  | .9600  | .9597  |
| 158.....                     | .9623                                                              | .9620  | .9616  | .9613  | .9611  | .9608  | .9604  | .9600  | .9596  | .9592  |
| 159.....                     | .9619                                                              | .9616  | .9612  | .9609  | .9607  | .9604  | .9600  | .9596  | .9592  | .9588  |
| 160.....                     | .9615                                                              | .9612  | .9608  | .9605  | .9603  | .9600  | .9596  | .9592  | .9588  | .9584  |
| 161.....                     | .9611                                                              | .9608  | .9604  | .9601  | .9599  | .9596  | .9592  | .9588  | .9584  | .9580  |
| 162.....                     | .9608                                                              | .9604  | .9601  | .9597  | .9595  | .9592  | .9588  | .9584  | .9580  | .9576  |
| 163.....                     | .9604                                                              | .9601  | .9597  | .9594  | .9591  | .9588  | .9584  | .9580  | .9576  | .9572  |
| 164.....                     | .9601                                                              | .9597  | .9594  | .9590  | .9587  | .9584  | .9580  | .9576  | .9572  | .9568  |
| 165.....                     | .9597                                                              | .9593  | .9590  | .9586  | .9583  | .9580  | .9576  | .9572  | .9568  | .9564  |
| 166.....                     | .9593                                                              | .9589  | .9586  | .9582  | .9579  | .9576  | .9572  | .9568  | .9564  | .9560  |
| 167.....                     | .9589                                                              | .9585  | .9582  | .9578  | .9575  | .9572  | .9568  | .9564  | .9560  | .9556  |
| 168.....                     | .9586                                                              | .9582  | .9578  | .9574  | .9571  | .9568  | .9564  | .9559  | .9555  | .9551  |
| 169.....                     | .9582                                                              | .9578  | .9574  | .9570  | .9567  | .9564  | .9560  | .9555  | .9551  | .9547  |
| 170.....                     | .9578                                                              | .9574  | .9570  | .9566  | .9563  | .9560  | .9556  | .9551  | .9547  | .9543  |
| 171.....                     | .9574                                                              | .9570  | .9566  | .9562  | .9559  | .9556  | .9552  | .9547  | .9543  | .9539  |
| 172.....                     | .9570                                                              | .9566  | .9562  | .9558  | .9555  | .9552  | .9548  | .9543  | .9539  | .9535  |
| 173.....                     | .9567                                                              | .9563  | .9559  | .9555  | .9552  | .9549  | .9544  | .9539  | .9535  | .9531  |
| 174.....                     | .9563                                                              | .9559  | .9555  | .9551  | .9548  | .9545  | .9540  | .9535  | .9531  | .9527  |
| 175.....                     | .9559                                                              | .9555  | .9551  | .9547  | .9544  | .9541  | .9536  | .9531  | .9527  | .9523  |
| 176.....                     | .9555                                                              | .9551  | .9547  | .9543  | .9540  | .9537  | .9532  | .9527  | .9523  | .9519  |
| 177.....                     | .9551                                                              | .9547  | .9543  | .9539  | .9536  | .9533  | .9528  | .9523  | .9519  | .9515  |
| 178.....                     | .9548                                                              | .9544  | .9540  | .9536  | .9533  | .9529  | .9524  | .9519  | .9514  | .9510  |
| 179.....                     | .9544                                                              | .9540  | .9536  | .9532  | .9529  | .9525  | .9520  | .9515  | .9510  | .9506  |
| 180.....                     | .9540                                                              | .9536  | .9532  | .9528  | .9525  | .9521  | .9516  | .9511  | .9506  | .9502  |
| 181.....                     | .9536                                                              | .9532  | .9528  | .9524  | .9521  | .9517  | .9512  | .9507  | .9502  | .9498  |
| 182.....                     | .9533                                                              | .9529  | .9524  | .9520  | .9517  | .9513  | .9508  | .9503  | .9498  | .9494  |
| 183.....                     | .9529                                                              | .9525  | .9521  | .9517  | .9514  | .9510  | .9505  | .9499  | .9494  | .9490  |
| 184.....                     | .9526                                                              | .9522  | .9517  | .9513  | .9510  | .9506  | .9501  | .9495  | .9490  | .9486  |
| 185.....                     | .9522                                                              | .9518  | .9513  | .9509  | .9506  | .9502  | .9497  | .9491  | .9486  | .9482  |
| 186.....                     | .9518                                                              | .9514  | .9509  | .9505  | .9502  | .9498  | .9493  | .9487  | .9482  | .9478  |
| 187.....                     | .9514                                                              | .9510  | .9505  | .9501  | .9498  | .9494  | .9489  | .9483  | .9478  | .9474  |
| 188.....                     | .9511                                                              | .9507  | .9502  | .9498  | .9494  | .9490  | .9485  | .9479  | .9474  | .9469  |
| 189.....                     | .9507                                                              | .9503  | .9498  | .9494  | .9490  | .9486  | .9481  | .9475  | .9470  | .9465  |
| 190.....                     | .9503                                                              | .9499  | .9494  | .9490  | .9486  | .9482  | .9477  | .9471  | .9466  | .9461  |
| 191.....                     | .9499                                                              | .9495  | .9490  | .9486  | .9482  | .9478  | .9473  | .9467  | .9462  | .9457  |
| 192.....                     | .9496                                                              | .9491  | .9487  | .9482  | .9478  | .9474  | .9469  | .9463  | .9458  | .9453  |
| 193.....                     | .9492                                                              | .9488  | .9483  | .9479  | .9475  | .9471  | .9465  | .9460  | .9454  | .9449  |
| 194.....                     | .9489                                                              | .9484  | .9480  | .9475  | .9471  | .9467  | .9461  | .9456  | .9450  | .9445  |
| 195.....                     | .9485                                                              | .9480  | .9476  | .9471  | .9467  | .9463  | .9457  | .9452  | .9446  | .9441  |





TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature—Continued.

| Observed temperature in °F. | Degrees A. P. I. at 60° F.                                         |        |        |        |        |        |        |        |        |        |
|-----------------------------|--------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 30                                                                 | 31     | 32     | 33     | 34     | 35     | 36     | 37     | 38     | 39     |
|                             | Volume at 60° F. occupied by unit volume at indicated temperature. |        |        |        |        |        |        |        |        |        |
| 65.....                     | 0.9979                                                             | 0.9979 | 0.9978 | 0.9978 | 0.9978 | 0.9978 | 0.9978 | 0.9977 | 0.9977 | 0.9977 |
| 66.....                     | .9975                                                              | .9975  | .9974  | .9974  | .9974  | .9973  | .9973  | .9972  | .9972  | .9972  |
| 67.....                     | .9971                                                              | .9970  | .9970  | .9969  | .9969  | .9969  | .9969  | .9968  | .9968  | .9968  |
| 68.....                     | .9966                                                              | .9966  | .9965  | .9965  | .9965  | .9964  | .9964  | .9963  | .9963  | .9963  |
| 69.....                     | .9962                                                              | .9961  | .9961  | .9960  | .9960  | .9960  | .9960  | .9959  | .9959  | .9959  |
| 70.....                     | .9958                                                              | .9957  | .9957  | .9956  | .9956  | .9955  | .9955  | .9954  | .9954  | .9954  |
| 71.....                     | .9954                                                              | .9953  | .9953  | .9952  | .9952  | .9951  | .9950  | .9950  | .9949  | .9949  |
| 72.....                     | .9950                                                              | .9949  | .9949  | .9948  | .9947  | .9946  | .9946  | .9945  | .9945  | .9945  |
| 73.....                     | .9945                                                              | .9944  | .9944  | .9943  | .9943  | .9942  | .9941  | .9941  | .9940  | .9940  |
| 74.....                     | .9941                                                              | .9940  | .9940  | .9939  | .9938  | .9937  | .9937  | .9936  | .9936  | .9935  |
| 75.....                     | .9937                                                              | .9936  | .9936  | .9935  | .9934  | .9933  | .9932  | .9932  | .9931  | .9930  |
| 76.....                     | .9933                                                              | .9932  | .9932  | .9931  | .9930  | .9929  | .9928  | .9928  | .9926  | .9925  |
| 77.....                     | .9928                                                              | .9927  | .9927  | .9926  | .9925  | .9924  | .9923  | .9923  | .9922  | .9921  |
| 78.....                     | .9924                                                              | .9923  | .9923  | .9922  | .9921  | .9920  | .9919  | .9918  | .9917  | .9916  |
| 79.....                     | .9919                                                              | .9918  | .9918  | .9917  | .9916  | .9915  | .9914  | .9914  | .9913  | .9912  |
| 80.....                     | .9915                                                              | .9914  | .9914  | .9913  | .9912  | .9911  | .9910  | .9909  | .9908  | .9907  |
| 81.....                     | .9911                                                              | .9910  | .9910  | .9909  | .9908  | .9906  | .9905  | .9904  | .9903  | .9902  |
| 82.....                     | .9907                                                              | .9906  | .9905  | .9904  | .9903  | .9902  | .9901  | .9899  | .9898  | .9897  |
| 83.....                     | .9902                                                              | .9901  | .9901  | .9900  | .9899  | .9897  | .9896  | .9895  | .9894  | .9893  |
| 84.....                     | .9898                                                              | .9897  | .9896  | .9895  | .9894  | .9893  | .9892  | .9890  | .9889  | .9888  |
| 85.....                     | .9894                                                              | .9893  | .9892  | .9891  | .9890  | .9888  | .9887  | .9885  | .9884  | .9883  |
| 86.....                     | .9890                                                              | .9889  | .9888  | .9887  | .9886  | .9884  | .9882  | .9881  | .9879  | .9878  |
| 87.....                     | .9886                                                              | .9885  | .9883  | .9882  | .9881  | .9879  | .9878  | .9876  | .9875  | .9874  |
| 88.....                     | .9881                                                              | .9880  | .9879  | .9878  | .9877  | .9875  | .9873  | .9872  | .9870  | .9869  |
| 89.....                     | .9877                                                              | .9876  | .9874  | .9873  | .9872  | .9870  | .9869  | .9867  | .9866  | .9865  |
| 90.....                     | .9873                                                              | .9872  | .9870  | .9869  | .9868  | .9866  | .9864  | .9863  | .9861  | .9860  |
| 91.....                     | .9869                                                              | .9868  | .9866  | .9865  | .9864  | .9862  | .9860  | .9858  | .9856  | .9855  |
| 92.....                     | .9865                                                              | .9863  | .9862  | .9860  | .9859  | .9857  | .9855  | .9854  | .9852  | .9850  |
| 93.....                     | .9860                                                              | .9859  | .9857  | .9856  | .9855  | .9853  | .9851  | .9849  | .9847  | .9846  |
| 94.....                     | .9856                                                              | .9854  | .9853  | .9851  | .9850  | .9849  | .9847  | .9845  | .9843  | .9841  |
| 95.....                     | .9852                                                              | .9850  | .9849  | .9847  | .9846  | .9844  | .9842  | .9840  | .9838  | .9836  |
| 96.....                     | .9848                                                              | .9846  | .9845  | .9843  | .9842  | .9840  | .9838  | .9835  | .9833  | .9831  |
| 97.....                     | .9844                                                              | .9842  | .9841  | .9839  | .9837  | .9835  | .9833  | .9831  | .9829  | .9827  |
| 98.....                     | .9839                                                              | .9837  | .9836  | .9834  | .9833  | .9831  | .9829  | .9826  | .9824  | .9822  |
| 99.....                     | .9835                                                              | .9833  | .9832  | .9830  | .9828  | .9826  | .9824  | .9822  | .9820  | .9818  |
| 100.....                    | .9831                                                              | .9829  | .9828  | .9826  | .9824  | .9822  | .9820  | .9817  | .9815  | .9813  |
| 101.....                    | .9827                                                              | .9825  | .9824  | .9822  | .9820  | .9818  | .9815  | .9813  | .9810  | .9808  |
| 102.....                    | .9823                                                              | .9821  | .9819  | .9817  | .9815  | .9813  | .9811  | .9808  | .9806  | .9804  |
| 103.....                    | .9818                                                              | .9816  | .9815  | .9813  | .9811  | .9809  | .9806  | .9804  | .9801  | .9799  |
| 104.....                    | .9814                                                              | .9812  | .9810  | .9808  | .9806  | .9804  | .9802  | .9799  | .9797  | .9795  |
| 105.....                    | .9810                                                              | .9808  | .9806  | .9804  | .9802  | .9800  | .9797  | .9795  | .9792  | .9790  |
| 106.....                    | .9806                                                              | .9804  | .9802  | .9800  | .9798  | .9795  | .9792  | .9790  | .9787  | .9785  |
| 107.....                    | .9802                                                              | .9800  | .9797  | .9795  | .9793  | .9791  | .9788  | .9786  | .9783  | .9780  |
| 108.....                    | .9797                                                              | .9795  | .9793  | .9791  | .9789  | .9786  | .9783  | .9781  | .9778  | .9776  |
| 109.....                    | .9793                                                              | .9791  | .9788  | .9786  | .9784  | .9782  | .9779  | .9777  | .9774  | .9771  |
| 110.....                    | .9789                                                              | .9787  | .9784  | .9782  | .9780  | .9777  | .9774  | .9772  | .9769  | .9766  |
| 111.....                    | .9785                                                              | .9783  | .9780  | .9778  | .9776  | .9773  | .9770  | .9767  | .9764  | .9761  |
| 112.....                    | .9781                                                              | .9779  | .9776  | .9774  | .9771  | .9768  | .9765  | .9763  | .9760  | .9757  |
| 113.....                    | .9776                                                              | .9774  | .9771  | .9769  | .9767  | .9764  | .9761  | .9758  | .9755  | .9752  |
| 114.....                    | .9772                                                              | .9770  | .9767  | .9765  | .9762  | .9759  | .9756  | .9754  | .9751  | .9748  |
| 115.....                    | .9768                                                              | .9766  | .9763  | .9761  | .9758  | .9755  | .9752  | .9749  | .9746  | .9743  |
| 116.....                    | .9764                                                              | .9762  | .9759  | .9757  | .9754  | .9751  | .9748  | .9744  | .9741  | .9738  |
| 117.....                    | .9760                                                              | .9757  | .9755  | .9752  | .9749  | .9746  | .9743  | .9740  | .9737  | .9734  |
| 118.....                    | .9755                                                              | .9753  | .9750  | .9748  | .9745  | .9742  | .9739  | .9735  | .9732  | .9729  |
| 119.....                    | .9751                                                              | .9748  | .9746  | .9743  | .9740  | .9737  | .9734  | .9731  | .9728  | .9725  |
| 120.....                    | .9747                                                              | .9744  | .9742  | .9739  | .9736  | .9733  | .9730  | .9726  | .9723  | .9720  |
| 121.....                    | .9743                                                              | .9740  | .9738  | .9735  | .9732  | .9729  | .9725  | .9722  | .9718  | .9715  |
| 122.....                    | .9739                                                              | .9736  | .9733  | .9730  | .9727  | .9724  | .9721  | .9717  | .9714  | .9710  |
| 123.....                    | .9734                                                              | .9731  | .9729  | .9726  | .9723  | .9720  | .9716  | .9713  | .9709  | .9706  |
| 124.....                    | .9730                                                              | .9727  | .9724  | .9721  | .9718  | .9715  | .9712  | .9708  | .9705  | .9701  |
| 125.....                    | .9726                                                              | .9723  | .9720  | .9717  | .9714  | .9711  | .9707  | .9704  | .9700  | .9696  |
| 126.....                    | .9722                                                              | .9719  | .9716  | .9713  | .9710  | .9707  | .9703  | .9699  | .9695  | .9691  |
| 127.....                    | .9718                                                              | .9715  | .9712  | .9709  | .9706  | .9702  | .9698  | .9695  | .9691  | .9687  |
| 128.....                    | .9713                                                              | .9710  | .9707  | .9704  | .9701  | .9698  | .9694  | .9690  | .9686  | .9682  |
| 129.....                    | .9709                                                              | .9706  | .9703  | .9700  | .9697  | .9693  | .9689  | .9686  | .9682  | .9678  |



TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature—Continued.

| Observed temperature in °F. | Degrees A. P. I. at 60° F.                                         |        |        |        |        |        |       |        |        |        |
|-----------------------------|--------------------------------------------------------------------|--------|--------|--------|--------|--------|-------|--------|--------|--------|
|                             | 30                                                                 | 31     | 32     | 33     | 34     | 35     | 36    | 37     | 38     | 39     |
|                             | Volume at 60° F. occupied by unit volume at indicated temperature. |        |        |        |        |        |       |        |        |        |
| 130.....                    | 0.9705                                                             | 0.9702 | 0.9699 | 0.9696 | 0.9693 | 0.9689 | .9685 | 0.9681 | 0.9677 | 0.9673 |
| 131.....                    | .9701                                                              | .9698  | .9695  | .9692  | .9689  | .9685  | .9681 | .9676  | .9672  | .9668  |
| 132.....                    | .9697                                                              | .9694  | .9690  | .9687  | .9684  | .9680  | .9676 | .9672  | .9668  | .9664  |
| 133.....                    | .9692                                                              | .9689  | .9686  | .9683  | .9680  | .9676  | .9672 | .9667  | .9663  | .9659  |
| 134.....                    | .9688                                                              | .9685  | .9681  | .9678  | .9675  | .9671  | .9667 | .9663  | .9659  | .9655  |
| 135.....                    | .9684                                                              | .9681  | .9677  | .9674  | .9671  | .9667  | .9663 | .9658  | .9654  | .9650  |
| 136.....                    | .9680                                                              | .9677  | .9673  | .9670  | .9667  | .9663  | .9658 | .9654  | .9649  | .9645  |
| 137.....                    | .9676                                                              | .9673  | .9669  | .9666  | .9662  | .9658  | .9654 | .9649  | .9645  | .9641  |
| 138.....                    | .9672                                                              | .9668  | .9665  | .9661  | .9658  | .9654  | .9649 | .9645  | .9640  | .9636  |
| 139.....                    | .9668                                                              | .9664  | .9661  | .9657  | .9653  | .9649  | .9645 | .9640  | .9636  | .9632  |
| 140.....                    | .9664                                                              | .9660  | .9657  | .9653  | .9649  | .9645  | .9640 | .9636  | .9631  | .9627  |
| 141.....                    | .9660                                                              | .9656  | .9653  | .9649  | .9645  | .9641  | .9636 | .9631  | .9626  | .9622  |
| 142.....                    | .9656                                                              | .9652  | .9648  | .9644  | .9640  | .9636  | .9631 | .9627  | .9622  | .9617  |
| 143.....                    | .9651                                                              | .9647  | .9644  | .9640  | .9636  | .9632  | .9627 | .9622  | .9617  | .9613  |
| 144.....                    | .9647                                                              | .9643  | .9639  | .9635  | .9631  | .9627  | .9622 | .9618  | .9613  | .9608  |
| 145.....                    | .9643                                                              | .9639  | .9635  | .9631  | .9627  | .9623  | .9618 | .9613  | .9608  | .9603  |
| 146.....                    | .9639                                                              | .9635  | .9631  | .9627  | .9623  | .9619  | .9614 | .9608  | .9603  | .9598  |
| 147.....                    | .9635                                                              | .9631  | .9627  | .9623  | .9619  | .9614  | .9609 | .9604  | .9599  | .9594  |
| 148.....                    | .9630                                                              | .9626  | .9622  | .9618  | .9614  | .9610  | .9605 | .9599  | .9594  | .9589  |
| 149.....                    | .9626                                                              | .9622  | .9618  | .9614  | .9610  | .9605  | .9600 | .9595  | .9590  | .9585  |
| 150.....                    | .9622                                                              | .9618  | .9614  | .9610  | .9606  | .9601  | .9596 | .9590  | .9585  | .9580  |
| 151.....                    | .9618                                                              | .9614  | .9610  | .9606  | .9602  | .9597  | .9591 | .9586  | .9580  | .9575  |
| 152.....                    | .9614                                                              | .9610  | .9605  | .9601  | .9597  | .9592  | .9587 | .9581  | .9576  | .9571  |
| 153.....                    | .9609                                                              | .9605  | .9601  | .9597  | .9593  | .9588  | .9582 | .9577  | .9571  | .9566  |
| 154.....                    | .9605                                                              | .9601  | .9596  | .9592  | .9588  | .9583  | .9578 | .9572  | .9567  | .9562  |
| 155.....                    | .9601                                                              | .9597  | .9592  | .9588  | .9584  | .9579  | .9573 | .9568  | .9562  | .9557  |
| 156.....                    | .9597                                                              | .9593  | .9589  | .9584  | .9580  | .9575  | .9569 | .9563  | .9557  | .9552  |
| 157.....                    | .9593                                                              | .9588  | .9584  | .9579  | .9575  | .9570  | .9564 | .9559  | .9553  | .9547  |
| 158.....                    | .9588                                                              | .9584  | .9579  | .9575  | .9571  | .9566  | .9560 | .9554  | .9548  | .9543  |
| 159.....                    | .9584                                                              | .9579  | .9575  | .9570  | .9566  | .9561  | .9555 | .9550  | .9544  | .9538  |
| 160.....                    | .9580                                                              | .9575  | .9571  | .9566  | .9562  | .9557  | .9551 | .9545  | .9539  | .9533  |
| 161.....                    | .9576                                                              | .9571  | .9567  | .9562  | .9558  | .9553  | .9547 | .9540  | .9534  | .9528  |
| 162.....                    | .9572                                                              | .9567  | .9563  | .9558  | .9553  | .9548  | .9542 | .9536  | .9530  | .9524  |
| 163.....                    | .9568                                                              | .9563  | .9558  | .9553  | .9549  | .9544  | .9538 | .9531  | .9525  | .9519  |
| 164.....                    | .9564                                                              | .9559  | .9554  | .9549  | .9544  | .9539  | .9533 | .9527  | .9521  | .9515  |
| 165.....                    | .9560                                                              | .9555  | .9550  | .9545  | .9540  | .9535  | .9529 | .9522  | .9516  | .9510  |
| 166.....                    | .9556                                                              | .9551  | .9546  | .9541  | .9536  | .9531  | .9525 | .9518  | .9512  | .9506  |
| 167.....                    | .9552                                                              | .9547  | .9542  | .9537  | .9532  | .9526  | .9520 | .9513  | .9507  | .9501  |
| 168.....                    | .9547                                                              | .9542  | .9537  | .9532  | .9527  | .9522  | .9516 | .9509  | .9503  | .9497  |
| 169.....                    | .9543                                                              | .9538  | .9533  | .9528  | .9523  | .9517  | .9511 | .9504  | .9498  | .9492  |
| 170.....                    | .9539                                                              | .9534  | .9529  | .9524  | .9519  | .9513  | .9507 | .9500  | .9494  | .9488  |
| 171.....                    | .9535                                                              | .9530  | .9525  | .9520  | .9515  | .9509  | .9502 | .9496  | .9489  | .9483  |
| 172.....                    | .9531                                                              | .9526  | .9520  | .9515  | .9510  | .9504  | .9498 | .9491  | .9485  | .9478  |
| 173.....                    | .9526                                                              | .9521  | .9516  | .9511  | .9506  | .9500  | .9493 | .9487  | .9480  | .9474  |
| 174.....                    | .9522                                                              | .9517  | .9511  | .9506  | .9501  | .9495  | .9489 | .9482  | .9476  | .9469  |
| 175.....                    | .9518                                                              | .9513  | .9507  | .9502  | .9497  | .9491  | .9484 | .9478  | .9471  | .9464  |
| 176.....                    | .9514                                                              | .9509  | .9503  | .9498  | .9493  | .9487  | .9480 | .9473  | .9466  | .9459  |
| 177.....                    | .9510                                                              | .9505  | .9499  | .9494  | .9488  | .9482  | .9475 | .9469  | .9462  | .9455  |
| 178.....                    | .9505                                                              | .9500  | .9494  | .9489  | .9484  | .9478  | .9471 | .9464  | .9457  | .9450  |
| 179.....                    | .9501                                                              | .9496  | .9490  | .9485  | .9479  | .9473  | .9466 | .9460  | .9453  | .9446  |
| 180.....                    | .9497                                                              | .9492  | .9486  | .9481  | .9475  | .9469  | .9462 | .9455  | .9448  | .9441  |
| 181.....                    | .9493                                                              | .9488  | .9482  | .9477  | .9471  | .9465  | .9458 | .9450  | .9443  | .9436  |
| 182.....                    | .9489                                                              | .9484  | .9478  | .9473  | .9467  | .9460  | .9453 | .9446  | .9439  | .9432  |
| 183.....                    | .9485                                                              | .9479  | .9474  | .9468  | .9462  | .9456  | .9449 | .9441  | .9434  | .9427  |
| 184.....                    | .9481                                                              | .9475  | .9470  | .9464  | .9458  | .9451  | .9444 | .9437  | .9430  | .9423  |
| 185.....                    | .9477                                                              | .9471  | .9466  | .9460  | .9454  | .9447  | .9440 | .9432  | .9425  | .9418  |
| 186.....                    | .9473                                                              | .9467  | .9462  | .9456  | .9450  | .9443  | .9435 | .9428  | .9420  | .9413  |
| 187.....                    | .9469                                                              | .9463  | .9457  | .9451  | .9445  | .9438  | .9431 | .9423  | .9416  | .9409  |
| 188.....                    | .9464                                                              | .9458  | .9453  | .9447  | .9441  | .9434  | .9426 | .9419  | .9411  | .9404  |
| 189.....                    | .9460                                                              | .9454  | .9448  | .9442  | .9436  | .9429  | .9422 | .9414  | .9407  | .9400  |
| 190.....                    | .9456                                                              | .9450  | .9444  | .9438  | .9432  | .9425  | .9417 | .9410  | .9402  | .9395  |
| 191.....                    | .9452                                                              | .9446  | .9440  | .9434  | .9428  | .9421  | .9413 | .9405  | .9397  | .9390  |
| 192.....                    | .9448                                                              | .9442  | .9436  | .9430  | .9423  | .9416  | .9408 | .9401  | .9393  | .9385  |
| 193.....                    | .9444                                                              | .9438  | .9431  | .9425  | .9419  | .9412  | .9404 | .9396  | .9388  | .9381  |
| 194.....                    | .9440                                                              | .9434  | .9427  | .9421  | .9414  | .9407  | .9399 | .9392  | .9384  | .9376  |
| 195.....                    | .9436                                                              | .9430  | .9423  | .9417  | .9410  | .9403  | .9395 | .9387  | .9379  | .9371  |

TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature—Continued.

| Observed temperature in °F. | Degrees A. P. I. at 60° F.                                         |        |        |        |        |        |        |        |        |        |
|-----------------------------|--------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 40                                                                 | 41     | 42     | 43     | 44     | 45     | 46     | 47     | 48     | 49     |
|                             | Volume at 60° F. occupied by unit volume at indicated temperature. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 1.0284                                                             | 1.0287 | 1.0291 | 1.0294 | 1.0297 | 1.0301 | 1.0305 | 1.0310 | 1.0315 | 1.0319 |
| 1.....                      | 1.0279                                                             | 1.0282 | 1.0286 | 1.0289 | 1.0292 | 1.0296 | 1.0300 | 1.0305 | 1.0310 | 1.0314 |
| 2.....                      | 1.0275                                                             | 1.0278 | 1.0281 | 1.0284 | 1.0287 | 1.0291 | 1.0295 | 1.0300 | 1.0305 | 1.0309 |
| 3.....                      | 1.0270                                                             | 1.0273 | 1.0277 | 1.0280 | 1.0283 | 1.0286 | 1.0290 | 1.0294 | 1.0299 | 1.0303 |
| 4.....                      | 1.0266                                                             | 1.0269 | 1.0272 | 1.0275 | 1.0278 | 1.0281 | 1.0285 | 1.0289 | 1.0294 | 1.0298 |
| 5.....                      | 1.0261                                                             | 1.0264 | 1.0267 | 1.0270 | 1.0273 | 1.0276 | 1.0280 | 1.0284 | 1.0289 | 1.0293 |
| 6.....                      | 1.0256                                                             | 1.0259 | 1.0262 | 1.0265 | 1.0268 | 1.0271 | 1.0275 | 1.0279 | 1.0284 | 1.0288 |
| 7.....                      | 1.0251                                                             | 1.0254 | 1.0257 | 1.0260 | 1.0263 | 1.0266 | 1.0270 | 1.0274 | 1.0279 | 1.0282 |
| 8.....                      | 1.0247                                                             | 1.0250 | 1.0252 | 1.0255 | 1.0258 | 1.0261 | 1.0265 | 1.0269 | 1.0273 | 1.0277 |
| 9.....                      | 1.0242                                                             | 1.0245 | 1.0247 | 1.0250 | 1.0253 | 1.0256 | 1.0260 | 1.0264 | 1.0268 | 1.0271 |
| 10.....                     | 1.0237                                                             | 1.0240 | 1.0242 | 1.0245 | 1.0248 | 1.0251 | 1.0255 | 1.0259 | 1.0263 | 1.0266 |
| 11.....                     | 1.0232                                                             | 1.0235 | 1.0237 | 1.0240 | 1.0243 | 1.0246 | 1.0250 | 1.0254 | 1.0258 | 1.0261 |
| 12.....                     | 1.0227                                                             | 1.0230 | 1.0232 | 1.0235 | 1.0238 | 1.0241 | 1.0245 | 1.0249 | 1.0253 | 1.0256 |
| 13.....                     | 1.0223                                                             | 1.0226 | 1.0228 | 1.0231 | 1.0233 | 1.0236 | 1.0240 | 1.0243 | 1.0247 | 1.0250 |
| 14.....                     | 1.0218                                                             | 1.0221 | 1.0223 | 1.0226 | 1.0228 | 1.0231 | 1.0235 | 1.0238 | 1.0242 | 1.0245 |
| 15.....                     | 1.0213                                                             | 1.0216 | 1.0218 | 1.0221 | 1.0223 | 1.0226 | 1.0230 | 1.0233 | 1.0237 | 1.0240 |
| 16.....                     | 1.0208                                                             | 1.0211 | 1.0213 | 1.0216 | 1.0218 | 1.0221 | 1.0225 | 1.0228 | 1.0232 | 1.0235 |
| 17.....                     | 1.0203                                                             | 1.0206 | 1.0208 | 1.0211 | 1.0213 | 1.0216 | 1.0219 | 1.0223 | 1.0226 | 1.0229 |
| 18.....                     | 1.0199                                                             | 1.0201 | 1.0204 | 1.0206 | 1.0208 | 1.0211 | 1.0214 | 1.0218 | 1.0221 | 1.0224 |
| 19.....                     | 1.0194                                                             | 1.0196 | 1.0199 | 1.0201 | 1.0203 | 1.0206 | 1.0209 | 1.0212 | 1.0215 | 1.0218 |
| 20.....                     | 1.0189                                                             | 1.0191 | 1.0194 | 1.0196 | 1.0198 | 1.0201 | 1.0204 | 1.0207 | 1.0210 | 1.0213 |
| 21.....                     | 1.0184                                                             | 1.0186 | 1.0189 | 1.0191 | 1.0193 | 1.0196 | 1.0199 | 1.0202 | 1.0205 | 1.0208 |
| 22.....                     | 1.0180                                                             | 1.0182 | 1.0184 | 1.0186 | 1.0188 | 1.0191 | 1.0194 | 1.0197 | 1.0200 | 1.0202 |
| 23.....                     | 1.0175                                                             | 1.0177 | 1.0180 | 1.0182 | 1.0184 | 1.0186 | 1.0189 | 1.0191 | 1.0194 | 1.0197 |
| 24.....                     | 1.0171                                                             | 1.0173 | 1.0175 | 1.0177 | 1.0179 | 1.0181 | 1.0184 | 1.0186 | 1.0189 | 1.0191 |
| 25.....                     | 1.0166                                                             | 1.0168 | 1.0170 | 1.0172 | 1.0174 | 1.0176 | 1.0179 | 1.0181 | 1.0184 | 1.0186 |
| 26.....                     | 1.0161                                                             | 1.0163 | 1.0165 | 1.0167 | 1.0169 | 1.0171 | 1.0174 | 1.0176 | 1.0179 | 1.0181 |
| 27.....                     | 1.0156                                                             | 1.0158 | 1.0160 | 1.0162 | 1.0164 | 1.0166 | 1.0169 | 1.0171 | 1.0174 | 1.0176 |
| 28.....                     | 1.0152                                                             | 1.0154 | 1.0155 | 1.0157 | 1.0159 | 1.0161 | 1.0163 | 1.0166 | 1.0168 | 1.0170 |
| 29.....                     | 1.0147                                                             | 1.0149 | 1.0150 | 1.0152 | 1.0154 | 1.0156 | 1.0158 | 1.0161 | 1.0163 | 1.0165 |
| 30.....                     | 1.0142                                                             | 1.0144 | 1.0145 | 1.0147 | 1.0149 | 1.0151 | 1.0153 | 1.0156 | 1.0158 | 1.0160 |
| 31.....                     | 1.0137                                                             | 1.0139 | 1.0140 | 1.0142 | 1.0144 | 1.0146 | 1.0148 | 1.0151 | 1.0153 | 1.0155 |
| 32.....                     | 1.0133                                                             | 1.0134 | 1.0136 | 1.0137 | 1.0139 | 1.0141 | 1.0143 | 1.0146 | 1.0148 | 1.0149 |
| 33.....                     | 1.0128                                                             | 1.0130 | 1.0131 | 1.0133 | 1.0134 | 1.0136 | 1.0138 | 1.0140 | 1.0142 | 1.0144 |
| 34.....                     | 1.0124                                                             | 1.0125 | 1.0127 | 1.0128 | 1.0129 | 1.0131 | 1.0133 | 1.0135 | 1.0137 | 1.0138 |
| 35.....                     | 1.0119                                                             | 1.0120 | 1.0122 | 1.0123 | 1.0124 | 1.0126 | 1.0128 | 1.0130 | 1.0132 | 1.0133 |
| 36.....                     | 1.0114                                                             | 1.0115 | 1.0117 | 1.0118 | 1.0119 | 1.0121 | 1.0123 | 1.0125 | 1.0127 | 1.0126 |
| 37.....                     | 1.0109                                                             | 1.0110 | 1.0112 | 1.0113 | 1.0114 | 1.0116 | 1.0118 | 1.0119 | 1.0121 | 1.0122 |
| 38.....                     | 1.0105                                                             | 1.0106 | 1.0107 | 1.0108 | 1.0109 | 1.0110 | 1.0112 | 1.0114 | 1.0116 | 1.0117 |
| 39.....                     | 1.0100                                                             | 1.0101 | 1.0102 | 1.0103 | 1.0104 | 1.0105 | 1.0107 | 1.0108 | 1.0110 | 1.0111 |
| 40.....                     | 1.0095                                                             | 1.0096 | 1.0097 | 1.0098 | 1.0099 | 1.0100 | 1.0102 | 1.0103 | 1.0105 | 1.0106 |
| 41.....                     | 1.0090                                                             | 1.0091 | 1.0092 | 1.0093 | 1.0094 | 1.0095 | 1.0097 | 1.0098 | 1.0100 | 1.0101 |
| 42.....                     | 1.0085                                                             | 1.0086 | 1.0087 | 1.0088 | 1.0089 | 1.0090 | 1.0092 | 1.0093 | 1.0095 | 1.0096 |
| 43.....                     | 1.0081                                                             | 1.0082 | 1.0083 | 1.0084 | 1.0084 | 1.0085 | 1.0086 | 1.0088 | 1.0089 | 1.0090 |
| 44.....                     | 1.0076                                                             | 1.0077 | 1.0078 | 1.0079 | 1.0079 | 1.0080 | 1.0081 | 1.0083 | 1.0084 | 1.0085 |
| 45.....                     | 1.0071                                                             | 1.0072 | 1.0073 | 1.0074 | 1.0074 | 1.0075 | 1.0076 | 1.0078 | 1.0079 | 1.0080 |
| 46.....                     | 1.0066                                                             | 1.0067 | 1.0068 | 1.0069 | 1.0069 | 1.0070 | 1.0071 | 1.0073 | 1.0074 | 1.0075 |
| 47.....                     | 1.0061                                                             | 1.0062 | 1.0063 | 1.0064 | 1.0064 | 1.0065 | 1.0066 | 1.0068 | 1.0069 | 1.0069 |
| 48.....                     | 1.0057                                                             | 1.0058 | 1.0058 | 1.0059 | 1.0059 | 1.0060 | 1.0061 | 1.0062 | 1.0063 | 1.0064 |
| 49.....                     | 1.0052                                                             | 1.0053 | 1.0053 | 1.0054 | 1.0054 | 1.0055 | 1.0056 | 1.0057 | 1.0058 | 1.0058 |

TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature—Continued.

| Observed temperature in ° F. | Degrees A. P. I. at 60° F.                                         |        |        |        |        |        |        |        |        |        |
|------------------------------|--------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 40                                                                 | 41     | 42     | 43     | 44     | 45     | 46     | 47     | 48     | 49     |
|                              | Volume at 60° F. occupied by unit volume at indicated temperature. |        |        |        |        |        |        |        |        |        |
| 50.....                      | 1.0047                                                             | 1.0048 | 1.0048 | 1.0049 | 1.0049 | 1.0050 | 1.0051 | 1.0052 | 1.0053 | 1.0053 |
| 51.....                      | 1.0042                                                             | 1.0043 | 1.0043 | 1.0044 | 1.0044 | 1.0045 | 1.0046 | 1.0047 | 1.0048 | 1.0048 |
| 52.....                      | 1.0038                                                             | 1.0038 | 1.0039 | 1.0039 | 1.0039 | 1.0040 | 1.0041 | 1.0041 | 1.0042 | 1.0042 |
| 53.....                      | 1.0033                                                             | 1.0034 | 1.0034 | 1.0035 | 1.0035 | 1.0035 | 1.0036 | 1.0036 | 1.0037 | 1.0037 |
| 54.....                      | 1.0029                                                             | 1.0029 | 1.0030 | 1.0030 | 1.0030 | 1.0030 | 1.0030 | 1.0031 | 1.0031 | 1.0031 |
| 55.....                      | 1.0024                                                             | 1.0024 | 1.0025 | 1.0025 | 1.0025 | 1.0025 | 1.0025 | 1.0026 | 1.0026 | 1.0026 |
| 56.....                      | 1.0019                                                             | 1.0019 | 1.0020 | 1.0020 | 1.0020 | 1.0020 | 1.0020 | 1.0021 | 1.0021 | 1.0021 |
| 57.....                      | 1.0014                                                             | 1.0014 | 1.0015 | 1.0015 | 1.0015 | 1.0015 | 1.0015 | 1.0016 | 1.0016 | 1.0016 |
| 58.....                      | 1.0010                                                             | 1.0010 | 1.0010 | 1.0010 | 1.0010 | 1.0010 | 1.0010 | 1.0010 | 1.0010 | 1.0010 |
| 59.....                      | 1.0005                                                             | 1.0005 | 1.0005 | 1.0005 | 1.0005 | 1.0005 | 1.0005 | 1.0005 | 1.0005 | 1.0005 |
| 60.....                      | 1.0000                                                             | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 61.....                      | .9995                                                              | .9995  | .9995  | .9995  | .9995  | .9995  | .9995  | .9995  | .9995  | .9995  |
| 62.....                      | .9990                                                              | .9990  | .9990  | .9990  | .9990  | .9990  | .9990  | .9990  | .9990  | .9990  |
| 63.....                      | .9986                                                              | .9986  | .9985  | .9985  | .9985  | .9985  | .9985  | .9984  | .9984  | .9984  |
| 64.....                      | .9981                                                              | .9981  | .9980  | .9980  | .9980  | .9980  | .9980  | .9979  | .9979  | .9979  |
| 65.....                      | .9976                                                              | .9976  | .9975  | .9975  | .9975  | .9975  | .9975  | .9974  | .9974  | .9974  |
| 66.....                      | .9971                                                              | .9971  | .9970  | .9970  | .9970  | .9970  | .9970  | .9969  | .9969  | .9969  |
| 67.....                      | .9967                                                              | .9966  | .9966  | .9965  | .9965  | .9965  | .9964  | .9964  | .9963  | .9963  |
| 68.....                      | .9962                                                              | .9962  | .9961  | .9961  | .9961  | .9960  | .9959  | .9959  | .9958  | .9958  |
| 69.....                      | .9958                                                              | .9957  | .9957  | .9956  | .9956  | .9955  | .9954  | .9953  | .9952  | .9952  |
| 70.....                      | .9953                                                              | .9952  | .9952  | .9951  | .9951  | .9950  | .9949  | .9948  | .9947  | .9947  |
| 71.....                      | .9948                                                              | .9947  | .9947  | .9946  | .9946  | .9945  | .9944  | .9943  | .9942  | .9942  |
| 72.....                      | .9943                                                              | .9942  | .9942  | .9941  | .9941  | .9940  | .9939  | .9938  | .9937  | .9936  |
| 73.....                      | .9939                                                              | .9938  | .9937  | .9936  | .9935  | .9934  | .9933  | .9932  | .9931  | .9931  |
| 74.....                      | .9934                                                              | .9933  | .9932  | .9931  | .9930  | .9929  | .9928  | .9927  | .9926  | .9925  |
| 75.....                      | .9929                                                              | .9928  | .9927  | .9926  | .9925  | .9924  | .9923  | .9922  | .9921  | .9920  |
| 76.....                      | .9924                                                              | .9923  | .9922  | .9921  | .9920  | .9919  | .9918  | .9917  | .9916  | .9915  |
| 77.....                      | .9919                                                              | .9918  | .9917  | .9916  | .9915  | .9914  | .9913  | .9911  | .9910  | .9909  |
| 78.....                      | .9915                                                              | .9914  | .9913  | .9912  | .9911  | .9909  | .9908  | .9906  | .9905  | .9904  |
| 79.....                      | .9910                                                              | .9909  | .9908  | .9907  | .9906  | .9904  | .9902  | .9901  | .9899  | .9898  |
| 80.....                      | .9905                                                              | .9904  | .9903  | .9902  | .9901  | .9899  | .9897  | .9896  | .9894  | .9893  |
| 81.....                      | .9900                                                              | .9899  | .9898  | .9897  | .9896  | .9894  | .9892  | .9891  | .9889  | .9888  |
| 82.....                      | .9895                                                              | .9894  | .9893  | .9892  | .9891  | .9889  | .9887  | .9886  | .9884  | .9882  |
| 83.....                      | .9891                                                              | .9890  | .9888  | .9887  | .9886  | .9884  | .9882  | .9880  | .9878  | .9877  |
| 84.....                      | .9886                                                              | .9885  | .9883  | .9882  | .9881  | .9879  | .9877  | .9875  | .9873  | .9871  |
| 85.....                      | .9881                                                              | .9880  | .9878  | .9877  | .9876  | .9874  | .9872  | .9870  | .9868  | .9866  |
| 86.....                      | .9876                                                              | .9875  | .9873  | .9872  | .9871  | .9869  | .9867  | .9865  | .9863  | .9861  |
| 87.....                      | .9872                                                              | .9870  | .9869  | .9867  | .9866  | .9864  | .9862  | .9860  | .9858  | .9856  |
| 88.....                      | .9867                                                              | .9866  | .9864  | .9863  | .9861  | .9859  | .9857  | .9854  | .9852  | .9850  |
| 89.....                      | .9863                                                              | .9861  | .9860  | .9858  | .9856  | .9854  | .9852  | .9849  | .9847  | .9845  |
| 90.....                      | .9858                                                              | .9856  | .9855  | .9853  | .9851  | .9849  | .9847  | .9844  | .9842  | .9840  |
| 91.....                      | .9853                                                              | .9851  | .9850  | .9848  | .9846  | .9844  | .9842  | .9839  | .9837  | .9835  |
| 92.....                      | .9848                                                              | .9846  | .9845  | .9843  | .9841  | .9839  | .9836  | .9834  | .9831  | .9829  |
| 93.....                      | .9844                                                              | .9842  | .9840  | .9838  | .9836  | .9834  | .9831  | .9829  | .9826  | .9824  |
| 94.....                      | .9839                                                              | .9837  | .9835  | .9833  | .9831  | .9829  | .9826  | .9823  | .9820  | .9818  |
| 95.....                      | .9834                                                              | .9832  | .9830  | .9828  | .9826  | .9824  | .9821  | .9818  | .9815  | .9813  |
| 96.....                      | .9829                                                              | .9827  | .9825  | .9823  | .9821  | .9819  | .9816  | .9813  | .9810  | .9808  |
| 97.....                      | .9825                                                              | .9823  | .9820  | .9818  | .9816  | .9814  | .9811  | .9808  | .9805  | .9802  |
| 98.....                      | .9820                                                              | .9818  | .9816  | .9814  | .9812  | .9809  | .9806  | .9802  | .9799  | .9797  |
| 99.....                      | .9816                                                              | .9814  | .9811  | .9809  | .9807  | .9804  | .9801  | .9797  | .9794  | .9791  |

TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature—Continued.

| Observed temperature in °F. | Degrees A. P. I. at 60° F.                                         |        |        |        |        |        |        |        |        |        |
|-----------------------------|--------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 40                                                                 | 41     | 42     | 43     | 44     | 45     | 46     | 47     | 48     | 49     |
|                             | Volume at 60° F. occupied by unit volume at indicated temperature. |        |        |        |        |        |        |        |        |        |
| 100.....                    | 0.9811                                                             | 0.9809 | 0.9806 | 0.9804 | 0.9802 | 0.9799 | 0.9796 | 0.9792 | 0.9789 | 0.9786 |
| 101.....                    | .9806                                                              | .9804  | .9801  | .9799  | .9797  | .9794  | .9791  | .9787  | .9784  | .9781  |
| 102.....                    | .9801                                                              | .9799  | .9796  | .9794  | .9792  | .9789  | .9785  | .9782  | .9778  | .9775  |
| 103.....                    | .9797                                                              | .9794  | .9792  | .9789  | .9786  | .9783  | .9780  | .9776  | .9773  | .9770  |
| 104.....                    | .9792                                                              | .9789  | .9787  | .9784  | .9781  | .9778  | .9774  | .9771  | .9767  | .9764  |
| 105.....                    | .9787                                                              | .9784  | .9782  | .9779  | .9776  | .9773  | .9769  | .9766  | .9762  | .9759  |
| 106.....                    | .9782                                                              | .9779  | .9777  | .9774  | .9771  | .9768  | .9764  | .9761  | .9757  | .9754  |
| 107.....                    | .9777                                                              | .9774  | .9772  | .9769  | .9766  | .9763  | .9759  | .9756  | .9752  | .9749  |
| 108.....                    | .9773                                                              | .9770  | .9768  | .9765  | .9762  | .9758  | .9754  | .9750  | .9746  | .9743  |
| 109.....                    | .9768                                                              | .9765  | .9763  | .9760  | .9757  | .9753  | .9749  | .9745  | .9741  | .9738  |
| 110.....                    | .9763                                                              | .9760  | .9758  | .9755  | .9752  | .9748  | .9744  | .9740  | .9736  | .9733  |
| 111.....                    | .9758                                                              | .9755  | .9753  | .9750  | .9747  | .9743  | .9739  | .9735  | .9731  | .9728  |
| 112.....                    | .9753                                                              | .9750  | .9748  | .9745  | .9742  | .9738  | .9734  | .9730  | .9726  | .9722  |
| 113.....                    | .9749                                                              | .9746  | .9743  | .9740  | .9737  | .9733  | .9729  | .9724  | .9720  | .9717  |
| 114.....                    | .9744                                                              | .9741  | .9738  | .9735  | .9732  | .9728  | .9724  | .9719  | .9715  | .9711  |
| 115.....                    | .9739                                                              | .9736  | .9733  | .9730  | .9727  | .9723  | .9719  | .9714  | .9710  | .9706  |
| 116.....                    | .9734                                                              | .9731  | .9728  | .9725  | .9722  | .9718  | .9714  | .9709  | .9705  | .9701  |
| 117.....                    | .9730                                                              | .9727  | .9723  | .9720  | .9717  | .9713  | .9708  | .9704  | .9699  | .9695  |
| 118.....                    | .9725                                                              | .9722  | .9719  | .9716  | .9712  | .9708  | .9703  | .9699  | .9694  | .9690  |
| 119.....                    | .9721                                                              | .9718  | .9714  | .9711  | .9707  | .9703  | .9698  | .9693  | .9688  | .9684  |
| 120.....                    | .9716                                                              | .9713  | .9709  | .9706  | .9702  | .9698  | .9693  | .9688  | .9683  | .9679  |
| 121.....                    | .9711                                                              | .9708  | .9704  | .9701  | .9697  | .9693  | .9688  | .9683  | .9678  | .9674  |
| 122.....                    | .9706                                                              | .9703  | .9699  | .9696  | .9692  | .9688  | .9683  | .9678  | .9673  | .9668  |
| 123.....                    | .9702                                                              | .9698  | .9695  | .9691  | .9687  | .9683  | .9678  | .9672  | .9667  | .9663  |
| 124.....                    | .9697                                                              | .9693  | .9690  | .9686  | .9682  | .9678  | .9673  | .9667  | .9662  | .9657  |
| 125.....                    | .9692                                                              | .9688  | .9685  | .9681  | .9677  | .9673  | .9668  | .9662  | .9657  | .9652  |
| 126.....                    | .9687                                                              | .9683  | .9680  | .9676  | .9672  | .9668  | .9663  | .9657  | .9652  | .9647  |
| 127.....                    | .9683                                                              | .9679  | .9675  | .9671  | .9667  | .9663  | .9658  | .9652  | .9647  | .9642  |
| 128.....                    | .9678                                                              | .9674  | .9671  | .9667  | .9662  | .9657  | .9652  | .9647  | .9641  | .9636  |
| 129.....                    | .9674                                                              | .9670  | .9666  | .9662  | .9657  | .9652  | .9647  | .9642  | .9636  | .9631  |
| 130.....                    | .9669                                                              | .9665  | .9661  | .9657  | .9652  | .9647  | .9642  | .9637  | .9631  | .9626  |
| 131.....                    | .9664                                                              | .9660  | .9656  | .9652  | .9647  | .9642  | .9637  | .9632  | .9626  | .9621  |
| 132.....                    | .9659                                                              | .9655  | .9651  | .9647  | .9642  | .9637  | .9632  | .9626  | .9620  | .9615  |
| 133.....                    | .9655                                                              | .9651  | .9646  | .9642  | .9637  | .9632  | .9626  | .9621  | .9615  | .9610  |
| 134.....                    | .9650                                                              | .9646  | .9641  | .9637  | .9632  | .9627  | .9621  | .9615  | .9609  | .9604  |
| 135.....                    | .9645                                                              | .9641  | .9636  | .9632  | .9627  | .9622  | .9616  | .9610  | .9604  | .9599  |
| 136.....                    | .9640                                                              | .9636  | .9631  | .9627  | .9622  | .9617  | .9611  | .9605  | .9599  | .9594  |
| 137.....                    | .9636                                                              | .9631  | .9627  | .9622  | .9617  | .9612  | .9606  | .9600  | .9594  | .9588  |
| 138.....                    | .9631                                                              | .9627  | .9622  | .9618  | .9613  | .9607  | .9601  | .9594  | .9588  | .9583  |
| 139.....                    | .9627                                                              | .9622  | .9618  | .9613  | .9608  | .9602  | .9596  | .9589  | .9583  | .9577  |
| 140.....                    | .9622                                                              | .9617  | .9613  | .9608  | .9603  | .9597  | .9591  | .9584  | .9578  | .9572  |
| 141.....                    | .9617                                                              | .9612  | .9608  | .9603  | .9598  | .9592  | .9586  | .9579  | .9573  | .9567  |
| 142.....                    | .9612                                                              | .9607  | .9603  | .9598  | .9593  | .9587  | .9580  | .9574  | .9567  | .9561  |
| 143.....                    | .9608                                                              | .9603  | .9598  | .9593  | .9588  | .9582  | .9575  | .9569  | .9562  | .9556  |
| 144.....                    | .9603                                                              | .9598  | .9593  | .9588  | .9583  | .9577  | .9570  | .9563  | .9556  | .9550  |
| 145.....                    | .9598                                                              | .9593  | .9588  | .9583  | .9578  | .9572  | .9565  | .9558  | .9551  | .9545  |
| 146.....                    | .9593                                                              | .9588  | .9583  | .9578  | .9573  | .9567  | .9560  | .9553  | .9546  | .9540  |
| 147.....                    | .9588                                                              | .9583  | .9578  | .9573  | .9568  | .9562  | .9555  | .9548  | .9541  | .9534  |
| 148.....                    | .9584                                                              | .9579  | .9574  | .9569  | .9563  | .9557  | .9550  | .9542  | .9535  | .9529  |
| 149.....                    | .9579                                                              | .9574  | .9569  | .9564  | .9558  | .9552  | .9545  | .9537  | .9530  | .9523  |
| 150.....                    | .9574                                                              | .9569  | .9564  | .9559  | .9553  | .9547  | .9540  | .9532  | .9525  | .9518  |



TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature—Continued.

| Observed temperature in ° F.                                       | Degrees A. P. I. at 60° F. |        |        |        |        |        |        |        |        |        |
|--------------------------------------------------------------------|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                                                    | 50                         | 51     | 52     | 53     | 54     | 55     | 56     | 57     | 58     | 59     |
| Volume at 60° F. occupied by unit volume at indicated temperature. |                            |        |        |        |        |        |        |        |        |        |
| 0.....                                                             | 1.0324                     | 1.0328 | 1.0333 | 1.0337 | 1.0342 | 1.0347 | 1.0352 | 1.0356 | 1.0361 | 1.0365 |
| 1.....                                                             | 1.0319                     | 1.0323 | 1.0328 | 1.0332 | 1.0336 | 1.0341 | 1.0346 | 1.0350 | 1.0355 | 1.0359 |
| 2.....                                                             | 1.0313                     | 1.0317 | 1.0322 | 1.0326 | 1.0331 | 1.0335 | 1.0340 | 1.0344 | 1.0349 | 1.0353 |
| 3.....                                                             | 1.0308                     | 1.0312 | 1.0317 | 1.0321 | 1.0325 | 1.0330 | 1.0335 | 1.0339 | 1.0343 | 1.0347 |
| 4.....                                                             | 1.0302                     | 1.0306 | 1.0311 | 1.0315 | 1.0320 | 1.0324 | 1.0329 | 1.0333 | 1.0337 | 1.0341 |
| 5.....                                                             | 1.0297                     | 1.0301 | 1.0306 | 1.0310 | 1.0314 | 1.0318 | 1.0323 | 1.0327 | 1.0331 | 1.0335 |
| 6.....                                                             | 1.0292                     | 1.0296 | 1.0300 | 1.0304 | 1.0308 | 1.0312 | 1.0317 | 1.0321 | 1.0325 | 1.0329 |
| 7.....                                                             | 1.0286                     | 1.0290 | 1.0295 | 1.0299 | 1.0303 | 1.0307 | 1.0311 | 1.0315 | 1.0319 | 1.0323 |
| 8.....                                                             | 1.0281                     | 1.0285 | 1.0289 | 1.0293 | 1.0297 | 1.0301 | 1.0306 | 1.0309 | 1.0313 | 1.0317 |
| 9.....                                                             | 1.0275                     | 1.0279 | 1.0284 | 1.0288 | 1.0292 | 1.0296 | 1.0300 | 1.0303 | 1.0307 | 1.0311 |
| 10.....                                                            | 1.0270                     | 1.0274 | 1.0278 | 1.0282 | 1.0286 | 1.0290 | 1.0294 | 1.0297 | 1.0301 | 1.0305 |
| 11.....                                                            | 1.0265                     | 1.0268 | 1.0272 | 1.0276 | 1.0280 | 1.0284 | 1.0288 | 1.0291 | 1.0295 | 1.0299 |
| 12.....                                                            | 1.0259                     | 1.0263 | 1.0267 | 1.0270 | 1.0274 | 1.0278 | 1.0282 | 1.0285 | 1.0289 | 1.0293 |
| 13.....                                                            | 1.0254                     | 1.0257 | 1.0261 | 1.0265 | 1.0269 | 1.0273 | 1.0277 | 1.0280 | 1.0283 | 1.0286 |
| 14.....                                                            | 1.0248                     | 1.0252 | 1.0256 | 1.0259 | 1.0263 | 1.0267 | 1.0271 | 1.0274 | 1.0277 | 1.0280 |
| 15.....                                                            | 1.0243                     | 1.0246 | 1.0250 | 1.0253 | 1.0257 | 1.0261 | 1.0265 | 1.0268 | 1.0271 | 1.0274 |
| 16.....                                                            | 1.0238                     | 1.0241 | 1.0245 | 1.0248 | 1.0251 | 1.0255 | 1.0259 | 1.0262 | 1.0265 | 1.0268 |
| 17.....                                                            | 1.0232                     | 1.0235 | 1.0239 | 1.0242 | 1.0246 | 1.0249 | 1.0253 | 1.0256 | 1.0259 | 1.0262 |
| 18.....                                                            | 1.0227                     | 1.0230 | 1.0234 | 1.0237 | 1.0240 | 1.0244 | 1.0248 | 1.0250 | 1.0253 | 1.0256 |
| 19.....                                                            | 1.0221                     | 1.0224 | 1.0228 | 1.0231 | 1.0235 | 1.0238 | 1.0242 | 1.0244 | 1.0247 | 1.0250 |
| 20.....                                                            | 1.0216                     | 1.0219 | 1.0223 | 1.0226 | 1.0229 | 1.0232 | 1.0236 | 1.0238 | 1.0241 | 1.0244 |
| 21.....                                                            | 1.0211                     | 1.0214 | 1.0217 | 1.0220 | 1.0223 | 1.0226 | 1.0230 | 1.0232 | 1.0235 | 1.0238 |
| 22.....                                                            | 1.0205                     | 1.0208 | 1.0212 | 1.0214 | 1.0217 | 1.0220 | 1.0224 | 1.0226 | 1.0229 | 1.0232 |
| 23.....                                                            | 1.0200                     | 1.0203 | 1.0206 | 1.0209 | 1.0212 | 1.0215 | 1.0218 | 1.0220 | 1.0223 | 1.0226 |
| 24.....                                                            | 1.0194                     | 1.0197 | 1.0201 | 1.0203 | 1.0206 | 1.0209 | 1.0212 | 1.0214 | 1.0217 | 1.0220 |
| 25.....                                                            | 1.0189                     | 1.0192 | 1.0195 | 1.0197 | 1.0200 | 1.0203 | 1.0206 | 1.0208 | 1.0211 | 1.0214 |
| 26.....                                                            | 1.0184                     | 1.0186 | 1.0189 | 1.0191 | 1.0194 | 1.0197 | 1.0200 | 1.0202 | 1.0205 | 1.0208 |
| 27.....                                                            | 1.0178                     | 1.0181 | 1.0184 | 1.0186 | 1.0189 | 1.0191 | 1.0194 | 1.0196 | 1.0199 | 1.0202 |
| 28.....                                                            | 1.0173                     | 1.0175 | 1.0178 | 1.0180 | 1.0183 | 1.0186 | 1.0189 | 1.0191 | 1.0193 | 1.0195 |
| 29.....                                                            | 1.0167                     | 1.0170 | 1.0173 | 1.0175 | 1.0178 | 1.0180 | 1.0183 | 1.0185 | 1.0187 | 1.0189 |
| 30.....                                                            | 1.0162                     | 1.0164 | 1.0167 | 1.0169 | 1.0172 | 1.0174 | 1.0177 | 1.0179 | 1.0181 | 1.0183 |
| 31.....                                                            | 1.0157                     | 1.0159 | 1.0161 | 1.0163 | 1.0166 | 1.0168 | 1.0171 | 1.0173 | 1.0175 | 1.0177 |
| 32.....                                                            | 1.0151                     | 1.0153 | 1.0156 | 1.0158 | 1.0160 | 1.0162 | 1.0165 | 1.0167 | 1.0169 | 1.0171 |
| 33.....                                                            | 1.0146                     | 1.0148 | 1.0150 | 1.0152 | 1.0155 | 1.0157 | 1.0159 | 1.0161 | 1.0163 | 1.0165 |
| 34.....                                                            | 1.0140                     | 1.0142 | 1.0145 | 1.0147 | 1.0149 | 1.0151 | 1.0153 | 1.0155 | 1.0157 | 1.0159 |
| 35.....                                                            | 1.0135                     | 1.0137 | 1.0139 | 1.0141 | 1.0143 | 1.0145 | 1.0147 | 1.0149 | 1.0151 | 1.0153 |
| 36.....                                                            | 1.0130                     | 1.0132 | 1.0134 | 1.0135 | 1.0137 | 1.0139 | 1.0141 | 1.0143 | 1.0145 | 1.0147 |
| 37.....                                                            | 1.0124                     | 1.0126 | 1.0128 | 1.0130 | 1.0132 | 1.0133 | 1.0135 | 1.0137 | 1.0139 | 1.0141 |
| 38.....                                                            | 1.0119                     | 1.0121 | 1.0123 | 1.0124 | 1.0126 | 1.0128 | 1.0130 | 1.0131 | 1.0133 | 1.0134 |
| 39.....                                                            | 1.0113                     | 1.0115 | 1.0117 | 1.0119 | 1.0121 | 1.0122 | 1.0124 | 1.0125 | 1.0127 | 1.0128 |
| 40.....                                                            | 1.0108                     | 1.0110 | 1.0112 | 1.0113 | 1.0115 | 1.0116 | 1.0118 | 1.0119 | 1.0121 | 1.0122 |
| 41.....                                                            | 1.0103                     | 1.0104 | 1.0106 | 1.0107 | 1.0109 | 1.0110 | 1.0112 | 1.0113 | 1.0115 | 1.0116 |
| 42.....                                                            | 1.0097                     | 1.0099 | 1.0101 | 1.0102 | 1.0103 | 1.0104 | 1.0106 | 1.0107 | 1.0109 | 1.0110 |
| 43.....                                                            | 1.0092                     | 1.0093 | 1.0095 | 1.0096 | 1.0098 | 1.0099 | 1.0101 | 1.0102 | 1.0103 | 1.0104 |
| 44.....                                                            | 1.0086                     | 1.0088 | 1.0090 | 1.0091 | 1.0092 | 1.0093 | 1.0095 | 1.0096 | 1.0097 | 1.0098 |
| 45.....                                                            | 1.0081                     | 1.0082 | 1.0084 | 1.0085 | 1.0086 | 1.0087 | 1.0089 | 1.0090 | 1.0091 | 1.0092 |
| 46.....                                                            | 1.0076                     | 1.0077 | 1.0078 | 1.0079 | 1.0080 | 1.0081 | 1.0083 | 1.0084 | 1.0085 | 1.0086 |
| 47.....                                                            | 1.0070                     | 1.0071 | 1.0073 | 1.0073 | 1.0074 | 1.0075 | 1.0077 | 1.0078 | 1.0079 | 1.0080 |
| 48.....                                                            | 1.0065                     | 1.0066 | 1.0067 | 1.0068 | 1.0069 | 1.0070 | 1.0071 | 1.0071 | 1.0072 | 1.0073 |
| 49.....                                                            | 1.0059                     | 1.0060 | 1.0062 | 1.0062 | 1.0063 | 1.0064 | 1.0065 | 1.0065 | 1.0066 | 1.0067 |
| 50.....                                                            | 1.0054                     | 1.0055 | 1.0056 | 1.0056 | 1.0057 | 1.0058 | 1.0059 | 1.0059 | 1.0060 | 1.0061 |
| 51.....                                                            | 1.0049                     | 1.0049 | 1.0050 | 1.0050 | 1.0051 | 1.0052 | 1.0053 | 1.0053 | 1.0054 | 1.0055 |
| 52.....                                                            | 1.0043                     | 1.0044 | 1.0045 | 1.0045 | 1.0046 | 1.0046 | 1.0047 | 1.0047 | 1.0048 | 1.0049 |
| 53.....                                                            | 1.0038                     | 1.0038 | 1.0039 | 1.0039 | 1.0040 | 1.0041 | 1.0042 | 1.0042 | 1.0042 | 1.0042 |
| 54.....                                                            | 1.0032                     | 1.0033 | 1.0034 | 1.0034 | 1.0035 | 1.0035 | 1.0036 | 1.0036 | 1.0036 | 1.0036 |
| 55.....                                                            | 1.0027                     | 1.0027 | 1.0028 | 1.0028 | 1.0029 | 1.0029 | 1.0030 | 1.0030 | 1.0030 | 1.0030 |
| 56.....                                                            | 1.0022                     | 1.0022 | 1.0022 | 1.0022 | 1.0023 | 1.0023 | 1.0024 | 1.0024 | 1.0024 | 1.0024 |
| 57.....                                                            | 1.0016                     | 1.0016 | 1.0017 | 1.0017 | 1.0017 | 1.0017 | 1.0018 | 1.0018 | 1.0018 | 1.0018 |
| 58.....                                                            | 1.0011                     | 1.0011 | 1.0011 | 1.0011 | 1.0012 | 1.0012 | 1.0012 | 1.0012 | 1.0012 | 1.0012 |
| 59.....                                                            | 1.0005                     | 1.0005 | 1.0006 | 1.0006 | 1.0006 | 1.0006 | 1.0006 | 1.0006 | 1.0006 | 1.0006 |
| 60.....                                                            | 1.0000                     | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 61.....                                                            | .9995                      | .9995  | .9994  | .9994  | .9994  | .9994  | .9994  | .9994  | .9994  | .9994  |
| 62.....                                                            | .9989                      | .9989  | .9989  | .9989  | .9988  | .9988  | .9988  | .9988  | .9988  | .9988  |
| 63.....                                                            | .9984                      | .9984  | .9983  | .9983  | .9983  | .9983  | .9983  | .9983  | .9982  | .9982  |
| 64.....                                                            | .9978                      | .9978  | .9978  | .9978  | .9977  | .9977  | .9977  | .9977  | .9976  | .9976  |

TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature—Continued.

| Observed temperature in ° F. | Degrees A. P. I. at 60° F.                                         |        |        |        |        |        |        |        |        |        |
|------------------------------|--------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 50                                                                 | 51     | 52     | 53     | 54     | 55     | 56     | 57     | 58     | 59     |
|                              | Volume at 60° F. occupied by unit volume at indicated temperature. |        |        |        |        |        |        |        |        |        |
| 65.....                      | 0.9973                                                             | 0.9973 | 0.9972 | 0.9972 | 0.9971 | 0.9971 | 0.9971 | 0.9971 | 0.9970 | 0.9970 |
| 66.....                      | .9968                                                              | .9967  | .9966  | .9966  | .9965  | .9965  | .9965  | .9965  | .9964  | .9964  |
| 67.....                      | .9962                                                              | .9962  | .9961  | .9961  | .9960  | .9960  | .9959  | .9958  | .9957  | .9957  |
| 68.....                      | .9957                                                              | .9956  | .9955  | .9955  | .9954  | .9954  | .9953  | .9952  | .9951  | .9951  |
| 69.....                      | .9951                                                              | .9951  | .9950  | .9950  | .9949  | .9948  | .9947  | .9946  | .9945  | .9945  |
| 70.....                      | .9946                                                              | .9945  | .9944  | .9944  | .9943  | .9942  | .9941  | .9940  | .9939  | .9939  |
| 71.....                      | .9941                                                              | .9940  | .9938  | .9938  | .9937  | .9936  | .9935  | .9934  | .9933  | .9933  |
| 72.....                      | .9935                                                              | .9934  | .9933  | .9932  | .9931  | .9930  | .9929  | .9928  | .9927  | .9927  |
| 73.....                      | .9930                                                              | .9929  | .9927  | .9927  | .9926  | .9925  | .9923  | .9922  | .9921  | .9920  |
| 74.....                      | .9924                                                              | .9923  | .9922  | .9921  | .9920  | .9919  | .9917  | .9916  | .9915  | .9914  |
| 75.....                      | .9919                                                              | .9918  | .9916  | .9915  | .9914  | .9913  | .9911  | .9910  | .9909  | .9908  |
| 76.....                      | .9913                                                              | .9912  | .9910  | .9909  | .9908  | .9907  | .9905  | .9904  | .9903  | .9902  |
| 77.....                      | .9908                                                              | .9907  | .9905  | .9904  | .9902  | .9901  | .9899  | .9898  | .9897  | .9896  |
| 78.....                      | .9902                                                              | .9901  | .9899  | .9898  | .9897  | .9896  | .9894  | .9893  | .9891  | .9890  |
| 79.....                      | .9897                                                              | .9896  | .9894  | .9893  | .9891  | .9890  | .9888  | .9887  | .9885  | .9884  |
| 80.....                      | .9891                                                              | .9890  | .9888  | .9887  | .9885  | .9884  | .9882  | .9881  | .9879  | .9878  |
| 81.....                      | .9886                                                              | .9884  | .9882  | .9881  | .9879  | .9878  | .9876  | .9875  | .9873  | .9872  |
| 82.....                      | .9880                                                              | .9879  | .9877  | .9875  | .9873  | .9871  | .9870  | .9869  | .9867  | .9865  |
| 83.....                      | .9875                                                              | .9873  | .9871  | .9870  | .9868  | .9866  | .9864  | .9862  | .9860  | .9859  |
| 84.....                      | .9869                                                              | .9868  | .9866  | .9864  | .9862  | .9860  | .9858  | .9856  | .9854  | .9852  |
| 85.....                      | .9864                                                              | .9862  | .9860  | .9858  | .9856  | .9854  | .9852  | .9850  | .9848  | .9846  |
| 86.....                      | .9859                                                              | .9857  | .9854  | .9852  | .9850  | .9848  | .9846  | .9844  | .9842  | .9840  |
| 87.....                      | .9853                                                              | .9851  | .9849  | .9847  | .9845  | .9843  | .9840  | .9838  | .9836  | .9834  |
| 88.....                      | .9848                                                              | .9846  | .9843  | .9841  | .9839  | .9837  | .9834  | .9832  | .9830  | .9828  |
| 89.....                      | .9842                                                              | .9840  | .9838  | .9836  | .9834  | .9831  | .9828  | .9826  | .9824  | .9822  |
| 90.....                      | .9837                                                              | .9835  | .9832  | .9830  | .9828  | .9825  | .9822  | .9820  | .9818  | .9816  |
| 91.....                      | .9832                                                              | .9829  | .9826  | .9824  | .9822  | .9819  | .9816  | .9814  | .9812  | .9810  |
| 92.....                      | .9826                                                              | .9824  | .9821  | .9819  | .9816  | .9813  | .9810  | .9808  | .9806  | .9804  |
| 93.....                      | .9821                                                              | .9818  | .9815  | .9813  | .9811  | .9808  | .9805  | .9803  | .9800  | .9797  |
| 94.....                      | .9815                                                              | .9813  | .9810  | .9808  | .9805  | .9802  | .9799  | .9797  | .9794  | .9791  |
| 95.....                      | .9810                                                              | .9807  | .9804  | .9802  | .9799  | .9796  | .9793  | .9791  | .9788  | .9785  |
| 96.....                      | .9805                                                              | .9802  | .9798  | .9796  | .9793  | .9790  | .9787  | .9785  | .9782  | .9779  |
| 97.....                      | .9799                                                              | .9796  | .9793  | .9790  | .9787  | .9784  | .9781  | .9779  | .9776  | .9773  |
| 98.....                      | .9794                                                              | .9791  | .9787  | .9785  | .9782  | .9779  | .9775  | .9772  | .9769  | .9766  |
| 99.....                      | .9788                                                              | .9785  | .9782  | .9779  | .9776  | .9773  | .9769  | .9766  | .9763  | .9760  |
| 100.....                     | .9783                                                              | .9780  | .9776  | .9773  | .9770  | .9767  | .9763  | .9760  | .9757  | .9754  |
| 101.....                     | .9778                                                              | .9774  | .9770  | .9767  | .9764  | .9761  | .9757  | .9754  | .9751  | .9748  |
| 102.....                     | .9772                                                              | .9769  | .9765  | .9762  | .9758  | .9755  | .9751  | .9748  | .9745  | .9742  |
| 103.....                     | .9767                                                              | .9763  | .9759  | .9756  | .9753  | .9749  | .9745  | .9742  | .9738  | .9735  |
| 104.....                     | .9761                                                              | .9758  | .9754  | .9751  | .9747  | .9743  | .9739  | .9736  | .9732  | .9729  |
| 105.....                     | .9756                                                              | .9752  | .9748  | .9745  | .9741  | .9737  | .9733  | .9730  | .9726  | .9723  |
| 106.....                     | .9751                                                              | .9747  | .9742  | .9739  | .9735  | .9731  | .9727  | .9724  | .9720  | .9717  |
| 107.....                     | .9745                                                              | .9741  | .9737  | .9733  | .9729  | .9725  | .9721  | .9718  | .9714  | .9711  |
| 108.....                     | .9740                                                              | .9736  | .9731  | .9728  | .9724  | .9720  | .9715  | .9712  | .9708  | .9705  |
| 109.....                     | .9734                                                              | .9730  | .9726  | .9722  | .9718  | .9714  | .9709  | .9706  | .9702  | .9699  |
| 110.....                     | .9729                                                              | .9725  | .9720  | .9716  | .9712  | .9708  | .9703  | .9700  | .9696  | .9693  |
| 111.....                     | .9724                                                              | .9720  | .9715  | .9711  | .9706  | .9702  | .9697  | .9694  | .9690  | .9687  |
| 112.....                     | .9718                                                              | .9714  | .9709  | .9705  | .9701  | .9696  | .9691  | .9688  | .9684  | .9680  |
| 113.....                     | .9713                                                              | .9709  | .9704  | .9700  | .9695  | .9690  | .9686  | .9682  | .9678  | .9674  |
| 114.....                     | .9707                                                              | .9703  | .9698  | .9694  | .9690  | .9685  | .9680  | .9676  | .9672  | .9668  |
| 115.....                     | .9702                                                              | .9698  | .9693  | .9689  | .9684  | .9679  | .9674  | .9670  | .9666  | .9662  |
| 116.....                     | .9696                                                              | .9692  | .9687  | .9683  | .9678  | .9673  | .9668  | .9664  | .9660  | .9656  |
| 117.....                     | .9691                                                              | .9687  | .9682  | .9677  | .9672  | .9667  | .9662  | .9658  | .9654  | .9650  |
| 118.....                     | .9685                                                              | .9681  | .9676  | .9672  | .9667  | .9662  | .9656  | .9652  | .9647  | .9643  |
| 119.....                     | .9680                                                              | .9676  | .9671  | .9666  | .9661  | .9656  | .9650  | .9646  | .9641  | .9637  |
| 120.....                     | .9674                                                              | .9670  | .9665  | .9660  | .9655  | .9650  | .9644  | .9640  | .9635  | .9631  |
| 121.....                     | .9669                                                              | .9664  | .9659  | .9654  | .9649  | .9644  | .9638  | .9634  | .9629  | .9625  |
| 122.....                     | .9663                                                              | .9659  | .9654  | .9649  | .9643  | .9638  | .9632  | .9628  | .9623  | .9619  |
| 123.....                     | .9658                                                              | .9653  | .9648  | .9643  | .9638  | .9632  | .9626  | .9622  | .9617  | .9612  |
| 124.....                     | .9652                                                              | .9648  | .9643  | .9638  | .9632  | .9626  | .9620  | .9616  | .9611  | .9606  |
| 125.....                     | .9647                                                              | .9642  | .9637  | .9632  | .9626  | .9620  | .9614  | .9610  | .9605  | .9600  |

TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature—Continued.

| Observed temperature in ° F. | Degrees A. P. I. at 60° F.                                         |        |        |        |        |        |        |        |        |        |
|------------------------------|--------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 60                                                                 | 61     | 62     | 63     | 64     | 65     | 66     | 67     | 68     | 69     |
|                              | Volume at 60° F. occupied by unit volume at indicated temperature. |        |        |        |        |        |        |        |        |        |
| 0.....                       | 1.0370                                                             | 1.0374 | 1.0378 | 1.0382 | 1.0387 | 1.0391 | 1.0395 | 1.0399 | 1.0403 | 1.0407 |
| 1.....                       | 1.0364                                                             | 1.0368 | 1.0372 | 1.0376 | 1.0381 | 1.0384 | 1.0388 | 1.0392 | 1.0396 | 1.0400 |
| 2.....                       | 1.0358                                                             | 1.0362 | 1.0366 | 1.0370 | 1.0374 | 1.0378 | 1.0382 | 1.0385 | 1.0389 | 1.0393 |
| 3.....                       | 1.0351                                                             | 1.0355 | 1.0359 | 1.0363 | 1.0368 | 1.0371 | 1.0375 | 1.0379 | 1.0383 | 1.0387 |
| 4.....                       | 1.0345                                                             | 1.0349 | 1.0353 | 1.0357 | 1.0361 | 1.0365 | 1.0369 | 1.0372 | 1.0376 | 1.0380 |
| 5.....                       | 1.0339                                                             | 1.0343 | 1.0347 | 1.0351 | 1.0355 | 1.0358 | 1.0362 | 1.0365 | 1.0369 | 1.0373 |
| 6.....                       | 1.0333                                                             | 1.0337 | 1.0341 | 1.0345 | 1.0349 | 1.0342 | 1.0356 | 1.0359 | 1.0362 | 1.0366 |
| 7.....                       | 1.0327                                                             | 1.0331 | 1.0335 | 1.0338 | 1.0342 | 1.0345 | 1.0349 | 1.0352 | 1.0356 | 1.0359 |
| 8.....                       | 1.0321                                                             | 1.0324 | 1.0328 | 1.0332 | 1.0336 | 1.0339 | 1.0343 | 1.0346 | 1.0349 | 1.0353 |
| 9.....                       | 1.0315                                                             | 1.0318 | 1.0322 | 1.0325 | 1.0329 | 1.0332 | 1.0336 | 1.0339 | 1.0343 | 1.0346 |
| 10.....                      | 1.0309                                                             | 1.0312 | 1.0316 | 1.0319 | 1.0323 | 1.0326 | 1.0330 | 1.0333 | 1.0336 | 1.0339 |
| 11.....                      | 1.0303                                                             | 1.0306 | 1.0310 | 1.0313 | 1.0317 | 1.0320 | 1.0323 | 1.0326 | 1.0329 | 1.0332 |
| 12.....                      | 1.0297                                                             | 1.0300 | 1.0304 | 1.0307 | 1.0310 | 1.0313 | 1.0317 | 1.0320 | 1.0323 | 1.0326 |
| 13.....                      | 1.0290                                                             | 1.0293 | 1.0297 | 1.0300 | 1.0304 | 1.0307 | 1.0310 | 1.0313 | 1.0316 | 1.0319 |
| 14.....                      | 1.0284                                                             | 1.0287 | 1.0291 | 1.0294 | 1.0297 | 1.0300 | 1.0304 | 1.0307 | 1.0310 | 1.0313 |
| 15.....                      | 1.0278                                                             | 1.0281 | 1.0285 | 1.0288 | 1.0291 | 1.0294 | 1.0297 | 1.0300 | 1.0303 | 1.0306 |
| 16.....                      | 1.0272                                                             | 1.0275 | 1.0279 | 1.0282 | 1.0285 | 1.0287 | 1.0290 | 1.0293 | 1.0296 | 1.0299 |
| 17.....                      | 1.0266                                                             | 1.0269 | 1.0272 | 1.0275 | 1.0278 | 1.0281 | 1.0284 | 1.0286 | 1.0289 | 1.0292 |
| 18.....                      | 1.0259                                                             | 1.0262 | 1.0266 | 1.0269 | 1.0272 | 1.0274 | 1.0277 | 1.0280 | 1.0283 | 1.0286 |
| 19.....                      | 1.0253                                                             | 1.0256 | 1.0259 | 1.0262 | 1.0265 | 1.0268 | 1.0271 | 1.0273 | 1.0276 | 1.0279 |
| 20.....                      | 1.0247                                                             | 1.0250 | 1.0253 | 1.0256 | 1.0259 | 1.0261 | 1.0264 | 1.0266 | 1.0269 | 1.0272 |
| 21.....                      | 1.0241                                                             | 1.0244 | 1.0247 | 1.0250 | 1.0253 | 1.0255 | 1.0257 | 1.0259 | 1.0262 | 1.0265 |
| 22.....                      | 1.0235                                                             | 1.0238 | 1.0241 | 1.0243 | 1.0246 | 1.0248 | 1.0251 | 1.0253 | 1.0256 | 1.0258 |
| 23.....                      | 1.0229                                                             | 1.0231 | 1.0234 | 1.0237 | 1.0240 | 1.0242 | 1.0244 | 1.0246 | 1.0249 | 1.0252 |
| 24.....                      | 1.0223                                                             | 1.0225 | 1.0228 | 1.0230 | 1.0233 | 1.0235 | 1.0238 | 1.0240 | 1.0243 | 1.0245 |
| 25.....                      | 1.0217                                                             | 1.0219 | 1.0222 | 1.0224 | 1.0227 | 1.0229 | 1.0231 | 1.0233 | 1.0236 | 1.0238 |
| 26.....                      | 1.0211                                                             | 1.0213 | 1.0216 | 1.0218 | 1.0220 | 1.0222 | 1.0224 | 1.0226 | 1.0229 | 1.0231 |
| 27.....                      | 1.0205                                                             | 1.0207 | 1.0209 | 1.0211 | 1.0214 | 1.0216 | 1.0218 | 1.0220 | 1.0223 | 1.0225 |
| 28.....                      | 1.0198                                                             | 1.0200 | 1.0203 | 1.0205 | 1.0207 | 1.0207 | 1.0211 | 1.0213 | 1.0216 | 1.0218 |
| 29.....                      | 1.0192                                                             | 1.0194 | 1.0196 | 1.0198 | 1.0201 | 1.0203 | 1.0205 | 1.0207 | 1.0210 | 1.0212 |
| 30.....                      | 1.0186                                                             | 1.0188 | 1.0190 | 1.0192 | 1.0194 | 1.0196 | 1.0198 | 1.0200 | 1.0203 | 1.0205 |
| 31.....                      | 1.0180                                                             | 1.0182 | 1.0184 | 1.0186 | 1.0188 | 1.0189 | 1.0191 | 1.0193 | 1.0196 | 1.0198 |
| 32.....                      | 1.0174                                                             | 1.0176 | 1.0178 | 1.0179 | 1.0181 | 1.0183 | 1.0185 | 1.0187 | 1.0189 | 1.0191 |
| 33.....                      | 1.0167                                                             | 1.0169 | 1.0171 | 1.0173 | 1.0175 | 1.0176 | 1.0178 | 1.0180 | 1.0183 | 1.0184 |
| 34.....                      | 1.0161                                                             | 1.0163 | 1.0165 | 1.0166 | 1.0168 | 1.0170 | 1.0172 | 1.0174 | 1.0176 | 1.0177 |
| 35.....                      | 1.0155                                                             | 1.0157 | 1.0159 | 1.0160 | 1.0162 | 1.0163 | 1.0165 | 1.0167 | 1.0169 | 1.0170 |
| 36.....                      | 1.0149                                                             | 1.0151 | 1.0153 | 1.0154 | 1.0156 | 1.0157 | 1.0158 | 1.0160 | 1.0162 | 1.0163 |
| 37.....                      | 1.0143                                                             | 1.0144 | 1.0146 | 1.0147 | 1.0149 | 1.0150 | 1.0152 | 1.0153 | 1.0155 | 1.0156 |
| 38.....                      | 1.0136                                                             | 1.0138 | 1.0140 | 1.0141 | 1.0143 | 1.0144 | 1.0145 | 1.0147 | 1.0149 | 1.0150 |
| 39.....                      | 1.0130                                                             | 1.0131 | 1.0133 | 1.0134 | 1.0136 | 1.0137 | 1.0139 | 1.0140 | 1.0142 | 1.0143 |
| 40.....                      | 1.0124                                                             | 1.0125 | 1.0127 | 1.0128 | 1.0130 | 1.0131 | 1.0132 | 1.0133 | 1.0135 | 1.0136 |
| 41.....                      | 1.0118                                                             | 1.0119 | 1.0121 | 1.0122 | 1.0123 | 1.0124 | 1.0125 | 1.0126 | 1.0128 | 1.0129 |
| 42.....                      | 1.0112                                                             | 1.0113 | 1.0114 | 1.0115 | 1.0117 | 1.0118 | 1.0119 | 1.0120 | 1.0122 | 1.0123 |
| 43.....                      | 1.0105                                                             | 1.0106 | 1.0108 | 1.0109 | 1.0110 | 1.0111 | 1.0112 | 1.0113 | 1.0115 | 1.0116 |
| 44.....                      | 1.0099                                                             | 1.0100 | 1.0101 | 1.0102 | 1.0104 | 1.0105 | 1.0106 | 1.0107 | 1.0109 | 1.0110 |
| 45.....                      | 1.0093                                                             | 1.0094 | 1.0095 | 1.0096 | 1.0097 | 1.0098 | 1.0099 | 1.0100 | 1.0102 | 1.0103 |
| 46.....                      | 1.0087                                                             | 1.0088 | 1.0089 | 1.0090 | 1.0091 | 1.0091 | 1.0092 | 1.0093 | 1.0095 | 1.0096 |
| 47.....                      | 1.0081                                                             | 1.0082 | 1.0083 | 1.0083 | 1.0084 | 1.0085 | 1.0086 | 1.0087 | 1.0088 | 1.0089 |
| 48.....                      | 1.0074                                                             | 1.0075 | 1.0076 | 1.0077 | 1.0078 | 1.0078 | 1.0079 | 1.0080 | 1.0082 | 1.0082 |
| 49.....                      | 1.0068                                                             | 1.0069 | 1.0070 | 1.0070 | 1.0071 | 1.0072 | 1.0073 | 1.0074 | 1.0075 | 1.0075 |
| 50.....                      | 1.0062                                                             | 1.0063 | 1.0064 | 1.0064 | 1.0065 | 1.0065 | 1.0066 | 1.0067 | 1.0068 | 1.0068 |
| 51.....                      | 1.0056                                                             | 1.0057 | 1.0058 | 1.0058 | 1.0058 | 1.0058 | 1.0059 | 1.0060 | 1.0061 | 1.0061 |
| 52.....                      | 1.0050                                                             | 1.0050 | 1.0051 | 1.0051 | 1.0052 | 1.0052 | 1.0053 | 1.0053 | 1.0054 | 1.0054 |
| 53.....                      | 1.0043                                                             | 1.0044 | 1.0045 | 1.0045 | 1.0045 | 1.0045 | 1.0046 | 1.0047 | 1.0048 | 1.0048 |
| 54.....                      | 1.0037                                                             | 1.0037 | 1.0038 | 1.0038 | 1.0039 | 1.0039 | 1.0040 | 1.0040 | 1.0041 | 1.0041 |
| 55.....                      | 1.0031                                                             | 1.0031 | 1.0032 | 1.0032 | 1.0032 | 1.0032 | 1.0033 | 1.0033 | 1.0034 | 1.0034 |
| 56.....                      | 1.0025                                                             | 1.0025 | 1.0026 | 1.0026 | 1.0026 | 1.0026 | 1.0026 | 1.0026 | 1.0027 | 1.0027 |
| 57.....                      | 1.0019                                                             | 1.0019 | 1.0019 | 1.0019 | 1.0019 | 1.0019 | 1.0020 | 1.0020 | 1.0020 | 1.0020 |
| 58.....                      | 1.0012                                                             | 1.0012 | 1.0013 | 1.0013 | 1.0013 | 1.0013 | 1.0013 | 1.0013 | 1.0014 | 1.0014 |
| 59.....                      | 1.0006                                                             | 1.0006 | 1.0006 | 1.0006 | 1.0006 | 1.0006 | 1.0007 | 1.0007 | 1.0007 | 1.0007 |
| 60.....                      | 1.0000                                                             | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 61.....                      | .9994                                                              | .9994  | .9994  | .9994  | .9993  | .9993  | .9993  | .9993  | .9993  | .9993  |
| 62.....                      | .9988                                                              | .9988  | .9987  | .9987  | .9987  | .9987  | .9987  | .9987  | .9986  | .9986  |
| 63.....                      | .9981                                                              | .9981  | .9981  | .9981  | .9980  | .9980  | .9980  | .9980  | .9980  | .9980  |
| 64.....                      | .9975                                                              | .9975  | .9974  | .9974  | .9974  | .9974  | .9974  | .9973  | .9973  | .9973  |



TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature—Continued.

| Observed temperature in °F. | Degrees A. P. I. at 60° F.                                         |        |        |        |        |        |        |        |        |        |
|-----------------------------|--------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 60                                                                 | 61     | 62     | 63     | 64     | 65     | 66     | 67     | 68     | 69     |
|                             | Volume at 60° F. occupied by unit volume at indicated temperature. |        |        |        |        |        |        |        |        |        |
| 65.....                     | 0.9969                                                             | 0.9969 | 0.9968 | 0.9968 | 0.9967 | 0.9967 | 0.9967 | 0.9967 | 0.9966 | 0.9966 |
| 66.....                     | .9963                                                              | .9963  | .9962  | .9962  | .9961  | .9961  | .9960  | .9960  | .9959  | .9959  |
| 67.....                     | .9957                                                              | .9956  | .9955  | .9955  | .9954  | .9954  | .9954  | .9953  | .9952  | .9952  |
| 68.....                     | .9950                                                              | .9950  | .9949  | .9949  | .9948  | .9948  | .9947  | .9947  | .9946  | .9946  |
| 69.....                     | .9944                                                              | .9943  | .9942  | .9942  | .9941  | .9941  | .9941  | .9940  | .9939  | .9939  |
| 70.....                     | .9938                                                              | .9937  | .9936  | .9936  | .9935  | .9935  | .9934  | .9933  | .9932  | .9932  |
| 71.....                     | .9932                                                              | .9931  | .9930  | .9929  | .9928  | .9928  | .9927  | .9926  | .9925  | .9925  |
| 72.....                     | .9926                                                              | .9925  | .9923  | .9923  | .9922  | .9921  | .9920  | .9919  | .9918  | .9918  |
| 73.....                     | .9919                                                              | .9918  | .9917  | .9916  | .9915  | .9915  | .9914  | .9913  | .9912  | .9911  |
| 74.....                     | .9913                                                              | .9912  | .9910  | .9910  | .9909  | .9908  | .9907  | .9906  | .9905  | .9904  |
| 75.....                     | .9907                                                              | .9906  | .9904  | .9903  | .9902  | .9901  | .9900  | .9899  | .9898  | .9897  |
| 76.....                     | .9901                                                              | .9900  | .9898  | .9897  | .9896  | .9895  | .9893  | .9892  | .9891  | .9890  |
| 77.....                     | .9895                                                              | .9894  | .9892  | .9891  | .9889  | .9888  | .9887  | .9886  | .9884  | .9883  |
| 78.....                     | .9888                                                              | .9887  | .9885  | .9884  | .9883  | .9882  | .9880  | .9879  | .9878  | .9877  |
| 79.....                     | .9882                                                              | .9881  | .9879  | .9878  | .9876  | .9875  | .9874  | .9873  | .9871  | .9870  |
| 80.....                     | .9876                                                              | .9875  | .9873  | .9872  | .9870  | .9869  | .9867  | .9866  | .9864  | .9863  |
| 81.....                     | .9870                                                              | .9869  | .9867  | .9866  | .9863  | .9862  | .9860  | .9859  | .9857  | .9856  |
| 82.....                     | .9863                                                              | .9862  | .9860  | .9859  | .9857  | .9856  | .9854  | .9852  | .9850  | .9849  |
| 83.....                     | .9857                                                              | .9856  | .9854  | .9852  | .9850  | .9849  | .9847  | .9846  | .9844  | .9842  |
| 84.....                     | .9850                                                              | .9849  | .9847  | .9846  | .9844  | .9843  | .9841  | .9839  | .9837  | .9835  |
| 85.....                     | .9844                                                              | .9843  | .9841  | .9839  | .9837  | .9836  | .9834  | .9832  | .9830  | .9828  |
| 86.....                     | .9838                                                              | .9837  | .9835  | .9833  | .9830  | .9829  | .9827  | .9825  | .9823  | .9821  |
| 87.....                     | .9832                                                              | .9830  | .9828  | .9826  | .9824  | .9822  | .9820  | .9818  | .9816  | .9814  |
| 88.....                     | .9825                                                              | .9824  | .9822  | .9820  | .9817  | .9816  | .9814  | .9812  | .9810  | .9808  |
| 89.....                     | .9819                                                              | .9817  | .9815  | .9813  | .9811  | .9809  | .9807  | .9805  | .9803  | .9801  |
| 90.....                     | .9813                                                              | .9811  | .9809  | .9807  | .9804  | .9802  | .9800  | .9798  | .9796  | .9794  |
| 91.....                     | .9807                                                              | .9805  | .9803  | .9801  | .9798  | .9796  | .9793  | .9791  | .9789  | .9787  |
| 92.....                     | .9801                                                              | .9799  | .9796  | .9794  | .9791  | .9789  | .9787  | .9785  | .9782  | .9780  |
| 93.....                     | .9794                                                              | .9792  | .9790  | .9788  | .9785  | .9783  | .9780  | .9778  | .9776  | .9774  |
| 94.....                     | .9788                                                              | .9786  | .9783  | .9781  | .9778  | .9776  | .9774  | .9772  | .9769  | .9767  |
| 95.....                     | .9782                                                              | .9780  | .9777  | .9775  | .9772  | .9770  | .9767  | .9765  | .9762  | .9760  |
| 96.....                     | .9776                                                              | .9774  | .9771  | .9768  | .9765  | .9763  | .9760  | .9758  | .9755  | .9753  |
| 97.....                     | .9770                                                              | .9767  | .9764  | .9762  | .9759  | .9756  | .9753  | .9751  | .9748  | .9746  |
| 98.....                     | .9763                                                              | .9761  | .9758  | .9755  | .9752  | .9750  | .9747  | .9745  | .9742  | .9739  |
| 99.....                     | .9757                                                              | .9754  | .9751  | .9749  | .9746  | .9743  | .9740  | .9738  | .9735  | .9732  |
| 100.....                    | .9751                                                              | .9748  | .9745  | .9742  | .9739  | .9736  | .9733  | .9731  | .9728  | .9725  |
| 101.....                    | .9745                                                              | .9742  | .9739  | .9736  | .9733  | .9730  | .9726  | .9724  | .9721  | .9718  |
| 102.....                    | .9739                                                              | .9736  | .9732  | .9729  | .9726  | .9723  | .9720  | .9717  | .9714  | .9711  |
| 103.....                    | .9732                                                              | .9729  | .9726  | .9723  | .9720  | .9717  | .9713  | .9711  | .9708  | .9705  |
| 104.....                    | .9726                                                              | .9723  | .9719  | .9716  | .9713  | .9710  | .9707  | .9704  | .9701  | .9698  |
| 105.....                    | .9720                                                              | .9717  | .9713  | .9710  | .9707  | .9704  | .9700  | .9697  | .9694  | .9691  |
| 106.....                    | .9714                                                              | .9711  | .9707  | .9704  | .9700  | .9697  | .9693  | .9690  | .9687  | .9684  |
| 107.....                    | .9708                                                              | .9704  | .9700  | .9697  | .9694  | .9690  | .9686  | .9683  | .9680  | .9677  |
| 108.....                    | .9701                                                              | .9698  | .9694  | .9691  | .9687  | .9684  | .9680  | .9677  | .9673  | .9670  |
| 109.....                    | .9695                                                              | .9691  | .9687  | .9684  | .9681  | .9677  | .9673  | .9670  | .9666  | .9663  |
| 110.....                    | .9689                                                              | .9685  | .9681  | .9678  | .9674  | .9670  | .9666  | .9663  | .9659  | .9656  |
| 111.....                    | .9683                                                              | .9679  | .9675  | .9671  | .9667  | .9663  | .9659  | .9656  | .9652  | .9649  |
| 112.....                    | .9676                                                              | .9672  | .9668  | .9665  | .9661  | .9657  | .9653  | .9649  | .9645  | .9642  |
| 113.....                    | .9670                                                              | .9666  | .9662  | .9658  | .9654  | .9650  | .9646  | .9643  | .9639  | .9635  |
| 114.....                    | .9663                                                              | .9659  | .9655  | .9652  | .9648  | .9644  | .9640  | .9636  | .9632  | .9628  |
| 115.....                    | .9657                                                              | .9653  | .9649  | .9645  | .9641  | .9637  | .9633  | .9629  | .9625  | .9621  |
| 116.....                    | .9651                                                              | .9647  | .9643  | .9639  | .9634  | .9630  | .9626  | .9622  | .9618  | .9614  |
| 117.....                    | .9645                                                              | .9641  | .9636  | .9632  | .9628  | .9624  | .9619  | .9615  | .9611  | .9607  |
| 118.....                    | .9638                                                              | .9634  | .9630  | .9626  | .9621  | .9617  | .9613  | .9609  | .9605  | .9601  |
| 119.....                    | .9632                                                              | .9628  | .9623  | .9619  | .9615  | .9611  | .9606  | .9602  | .9598  | .9594  |
| 120.....                    | .9626                                                              | .9622  | .9617  | .9613  | .9608  | .9604  | .9599  | .9595  | .9591  | .9587  |
| 121.....                    | .9620                                                              | .9616  | .9611  | .9607  | .9602  | .9597  | .9592  | .9588  | .9584  | .9580  |
| 122.....                    | .9614                                                              | .9609  | .9604  | .9600  | .9595  | .9591  | .9586  | .9582  | .9577  | .9573  |
| 123.....                    | .9607                                                              | .9603  | .9598  | .9594  | .9589  | .9584  | .9579  | .9575  | .9571  | .9566  |
| 124.....                    | .9601                                                              | .9596  | .9591  | .9587  | .9582  | .9578  | .9573  | .9569  | .9564  | .9559  |
| 125.....                    | .9595                                                              | .9590  | .9585  | .9581  | .9576  | .9571  | .9566  | .9562  | .9557  | .9552  |



TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature—Continued.

| Observed temperature in °F. | Degrees A. P. I. 60° F.                                            |        |        |        |        |        |        |        |        |        |
|-----------------------------|--------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 70                                                                 | 71     | 72     | 73     | 74     | 75     | 76     | 77     | 78     | 79     |
|                             | Volume at 60° F. occupied by unit volume at indicated temperature. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 1.0411                                                             | 1.0415 | 1.0419 | 1.0422 | 1.0426 | 1.0430 | 1.0434 | 1.0438 | 1.0443 | 1.0447 |
| 1.....                      | 1.0404                                                             | 1.0408 | 1.0412 | 1.0415 | 1.0419 | 1.0423 | 1.0427 | 1.0431 | 1.0436 | 1.0440 |
| 2.....                      | 1.0397                                                             | 1.0401 | 1.0405 | 1.0408 | 1.0412 | 1.0416 | 1.0420 | 1.0424 | 1.0429 | 1.0432 |
| 3.....                      | 1.0391                                                             | 1.0394 | 1.0398 | 1.0401 | 1.0405 | 1.0409 | 1.0413 | 1.0417 | 1.0421 | 1.0425 |
| 4.....                      | 1.0384                                                             | 1.0387 | 1.0391 | 1.0394 | 1.0398 | 1.0402 | 1.0406 | 1.0410 | 1.0414 | 1.0417 |
| 5.....                      | 1.0377                                                             | 1.0380 | 1.0384 | 1.0387 | 1.0391 | 1.0395 | 1.0399 | 1.0403 | 1.0407 | 1.0410 |
| 6.....                      | 1.0370                                                             | 1.0373 | 1.0377 | 1.0380 | 1.0384 | 1.0388 | 1.0392 | 1.0396 | 1.0400 | 1.0403 |
| 7.....                      | 1.0363                                                             | 1.0366 | 1.0370 | 1.0373 | 1.0377 | 1.0381 | 1.0385 | 1.0388 | 1.0392 | 1.0395 |
| 8.....                      | 1.0357                                                             | 1.0360 | 1.0364 | 1.0367 | 1.0370 | 1.0373 | 1.0377 | 1.0381 | 1.0385 | 1.0388 |
| 9.....                      | 1.0350                                                             | 1.0353 | 1.0357 | 1.0360 | 1.0363 | 1.0366 | 1.0370 | 1.0373 | 1.0377 | 1.0380 |
| 10.....                     | 1.0343                                                             | 1.0346 | 1.0350 | 1.0353 | 1.0356 | 1.0359 | 1.0363 | 1.0366 | 1.0370 | 1.0373 |
| 11.....                     | 1.0336                                                             | 1.0339 | 1.0343 | 1.0346 | 1.0349 | 1.0352 | 1.0356 | 1.0359 | 1.0363 | 1.0366 |
| 12.....                     | 1.0329                                                             | 1.0332 | 1.0336 | 1.0339 | 1.0342 | 1.0345 | 1.0349 | 1.0352 | 1.0356 | 1.0359 |
| 13.....                     | 1.0323                                                             | 1.0326 | 1.0329 | 1.0332 | 1.0335 | 1.0338 | 1.0341 | 1.0344 | 1.0348 | 1.0351 |
| 14.....                     | 1.0316                                                             | 1.0319 | 1.0322 | 1.0325 | 1.0328 | 1.0331 | 1.0334 | 1.0337 | 1.0341 | 1.0344 |
| 15.....                     | 1.0309                                                             | 1.0312 | 1.0315 | 1.0318 | 1.0321 | 1.0324 | 1.0327 | 1.0330 | 1.0334 | 1.0337 |
| 16.....                     | 1.0302                                                             | 1.0305 | 1.0308 | 1.0311 | 1.0314 | 1.0317 | 1.0320 | 1.0323 | 1.0327 | 1.0329 |
| 17.....                     | 1.0295                                                             | 1.0298 | 1.0301 | 1.0304 | 1.0307 | 1.0310 | 1.0313 | 1.0316 | 1.0319 | 1.0322 |
| 18.....                     | 1.0289                                                             | 1.0291 | 1.0294 | 1.0297 | 1.0299 | 1.0302 | 1.0305 | 1.0308 | 1.0312 | 1.0314 |
| 19.....                     | 1.0282                                                             | 1.0284 | 1.0287 | 1.0290 | 1.0292 | 1.0295 | 1.0298 | 1.0301 | 1.0304 | 1.0307 |
| 20.....                     | 1.0275                                                             | 1.0277 | 1.0280 | 1.0283 | 1.0285 | 1.0288 | 1.0291 | 1.0294 | 1.0297 | 1.0299 |
| 21.....                     | 1.0268                                                             | 1.0270 | 1.0273 | 1.0276 | 1.0278 | 1.0281 | 1.0284 | 1.0287 | 1.0290 | 1.0292 |
| 22.....                     | 1.0261                                                             | 1.0263 | 1.0266 | 1.0269 | 1.0271 | 1.0274 | 1.0277 | 1.0279 | 1.0282 | 1.0284 |
| 23.....                     | 1.0255                                                             | 1.0257 | 1.0260 | 1.0262 | 1.0264 | 1.0266 | 1.0269 | 1.0272 | 1.0275 | 1.0277 |
| 24.....                     | 1.0248                                                             | 1.0250 | 1.0253 | 1.0255 | 1.0257 | 1.0259 | 1.0262 | 1.0264 | 1.0267 | 1.0269 |
| 25.....                     | 1.0241                                                             | 1.0243 | 1.0246 | 1.0248 | 1.0250 | 1.0252 | 1.0255 | 1.0257 | 1.0260 | 1.0262 |
| 26.....                     | 1.0234                                                             | 1.0236 | 1.0239 | 1.0241 | 1.0243 | 1.0245 | 1.0248 | 1.0250 | 1.0253 | 1.0255 |
| 27.....                     | 1.0227                                                             | 1.0229 | 1.0232 | 1.0234 | 1.0236 | 1.0238 | 1.0241 | 1.0243 | 1.0245 | 1.0247 |
| 28.....                     | 1.0221                                                             | 1.0223 | 1.0225 | 1.0227 | 1.0229 | 1.0231 | 1.0233 | 1.0235 | 1.0238 | 1.0240 |
| 29.....                     | 1.0214                                                             | 1.0216 | 1.0218 | 1.0220 | 1.0222 | 1.0224 | 1.0226 | 1.0228 | 1.0230 | 1.0232 |
| 30.....                     | 1.0207                                                             | 1.0209 | 1.0211 | 1.0213 | 1.0215 | 1.0217 | 1.0219 | 1.0221 | 1.0223 | 1.0225 |
| 31.....                     | 1.0200                                                             | 1.0202 | 1.0204 | 1.0206 | 1.0208 | 1.0210 | 1.0212 | 1.0214 | 1.0216 | 1.0218 |
| 32.....                     | 1.0193                                                             | 1.0195 | 1.0197 | 1.0199 | 1.0201 | 1.0202 | 1.0204 | 1.0206 | 1.0208 | 1.0210 |
| 33.....                     | 1.0186                                                             | 1.0188 | 1.0190 | 1.0191 | 1.0193 | 1.0195 | 1.0197 | 1.0199 | 1.0201 | 1.0203 |
| 34.....                     | 1.0179                                                             | 1.0181 | 1.0183 | 1.0184 | 1.0186 | 1.0187 | 1.0189 | 1.0191 | 1.0193 | 1.0195 |
| 35.....                     | 1.0172                                                             | 1.0174 | 1.0176 | 1.0177 | 1.0179 | 1.0180 | 1.0182 | 1.0184 | 1.0186 | 1.0188 |
| 36.....                     | 1.0165                                                             | 1.0167 | 1.0169 | 1.0170 | 1.0172 | 1.0173 | 1.0175 | 1.0177 | 1.0179 | 1.0180 |
| 37.....                     | 1.0158                                                             | 1.0160 | 1.0162 | 1.0163 | 1.0165 | 1.0166 | 1.0168 | 1.0169 | 1.0171 | 1.0173 |
| 38.....                     | 1.0152                                                             | 1.0153 | 1.0155 | 1.0156 | 1.0157 | 1.0158 | 1.0160 | 1.0162 | 1.0164 | 1.0165 |
| 39.....                     | 1.0145                                                             | 1.0146 | 1.0148 | 1.0149 | 1.0150 | 1.0151 | 1.0153 | 1.0154 | 1.0156 | 1.0158 |
| 40.....                     | 1.0138                                                             | 1.0139 | 1.0141 | 1.0142 | 1.0143 | 1.0144 | 1.0146 | 1.0147 | 1.0149 | 1.0150 |
| 41.....                     | 1.0131                                                             | 1.0132 | 1.0134 | 1.0135 | 1.0136 | 1.0137 | 1.0139 | 1.0140 | 1.0142 | 1.0143 |
| 42.....                     | 1.0124                                                             | 1.0125 | 1.0127 | 1.0128 | 1.0129 | 1.0130 | 1.0132 | 1.0133 | 1.0134 | 1.0135 |
| 43.....                     | 1.0118                                                             | 1.0119 | 1.0120 | 1.0121 | 1.0122 | 1.0123 | 1.0124 | 1.0125 | 1.0127 | 1.0128 |
| 44.....                     | 1.0111                                                             | 1.0112 | 1.0113 | 1.0114 | 1.0115 | 1.0116 | 1.0117 | 1.0118 | 1.0119 | 1.0120 |

TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature—Continued.

| Observed temperature in °F. | Degrees A. P. I. at 60° F.                                         |        |        |        |        |        |        |        |        |        |
|-----------------------------|--------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 70                                                                 | 71     | 72     | 73     | 74     | 75     | 76     | 77     | 78     | 79     |
|                             | Volume at 60° F. occupied by unit volume at indicated temperature. |        |        |        |        |        |        |        |        |        |
| 45.....                     | 1.0104                                                             | 1.0105 | 1.0106 | 1.0107 | 1.0108 | 1.0109 | 1.0110 | 1.0111 | 1.0112 | 1.0113 |
| 46.....                     | 1.0097                                                             | 1.0098 | 1.0099 | 1.0100 | 1.0101 | 1.0102 | 1.0103 | 1.0104 | 1.0105 | 1.0105 |
| 47.....                     | 1.0090                                                             | 1.0091 | 1.0092 | 1.0093 | 1.0094 | 1.0094 | 1.0095 | 1.0096 | 1.0097 | 1.0098 |
| 48.....                     | 1.0083                                                             | 1.0083 | 1.0084 | 1.0085 | 1.0086 | 1.0087 | 1.0088 | 1.0089 | 1.0090 | 1.0090 |
| 49.....                     | 1.0076                                                             | 1.0076 | 1.0077 | 1.0078 | 1.0079 | 1.0079 | 1.0080 | 1.0081 | 1.0082 | 1.0083 |
| 50.....                     | 1.0069                                                             | 1.0069 | 1.0070 | 1.0071 | 1.0072 | 1.0072 | 1.0073 | 1.0074 | 1.0075 | 1.0075 |
| 51.....                     | 1.0062                                                             | 1.0062 | 1.0063 | 1.0064 | 1.0065 | 1.0065 | 1.0066 | 1.0066 | 1.0067 | 1.0067 |
| 52.....                     | 1.0055                                                             | 1.0055 | 1.0056 | 1.0057 | 1.0058 | 1.0058 | 1.0059 | 1.0059 | 1.0060 | 1.0060 |
| 53.....                     | 1.0049                                                             | 1.0049 | 1.0049 | 1.0049 | 1.0050 | 1.0050 | 1.0051 | 1.0051 | 1.0052 | 1.0052 |
| 54.....                     | 1.0042                                                             | 1.0042 | 1.0042 | 1.0042 | 1.0043 | 1.0043 | 1.0044 | 1.0044 | 1.0045 | 1.0045 |
| 55.....                     | 1.0035                                                             | 1.0035 | 1.0035 | 1.0035 | 1.0035 | 1.0036 | 1.0037 | 1.0037 | 1.0037 | 1.0037 |
| 56.....                     | 1.0028                                                             | 1.0028 | 1.0028 | 1.0028 | 1.0029 | 1.0029 | 1.0030 | 1.0030 | 1.0030 | 1.0030 |
| 57.....                     | 1.0021                                                             | 1.0021 | 1.0021 | 1.0021 | 1.0022 | 1.0022 | 1.0022 | 1.0022 | 1.0022 | 1.0022 |
| 58.....                     | 1.0014                                                             | 1.0014 | 1.0014 | 1.0014 | 1.0014 | 1.0014 | 1.0015 | 1.0015 | 1.0015 | 1.0015 |
| 59.....                     | 1.0007                                                             | 1.0007 | 1.0007 | 1.0007 | 1.0007 | 1.0007 | 1.0007 | 1.0007 | 1.0007 | 1.0007 |
| 60.....                     | 1.0000                                                             | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 61.....                     | .9993                                                              | .9993  | .9993  | .9993  | .9993  | .9993  | .9993  | .9993  | .9993  | .9993  |
| 62.....                     | .9986                                                              | .9986  | .9986  | .9986  | .9986  | .9986  | .9985  | .9985  | .9985  | .9985  |
| 63.....                     | .9979                                                              | .9979  | .9979  | .9979  | .9978  | .9978  | .9978  | .9978  | .9978  | .9978  |
| 64.....                     | .9972                                                              | .9972  | .9972  | .9972  | .9971  | .9971  | .9970  | .9970  | .9970  | .9970  |
| 65.....                     | .9965                                                              | .9965  | .9965  | .9965  | .9964  | .9964  | .9963  | .9963  | .9963  | .9963  |
| 66.....                     | .9958                                                              | .9958  | .9958  | .9958  | .9957  | .9957  | .9956  | .9956  | .9955  | .9955  |
| 67.....                     | .9951                                                              | .9951  | .9951  | .9951  | .9950  | .9949  | .9948  | .9948  | .9948  | .9948  |
| 68.....                     | .9945                                                              | .9944  | .9943  | .9943  | .9942  | .9942  | .9941  | .9941  | .9940  | .9940  |
| 69.....                     | .9938                                                              | .9937  | .9936  | .9936  | .9935  | .9934  | .9933  | .9933  | .9933  | .9933  |
| 70.....                     | .9931                                                              | .9930  | .9929  | .9929  | .9928  | .9927  | .9926  | .9926  | .9925  | .9925  |
| 71.....                     | .9924                                                              | .9923  | .9922  | .9922  | .9921  | .9920  | .9919  | .9919  | .9918  | .9917  |
| 72.....                     | .9917                                                              | .9916  | .9915  | .9915  | .9914  | .9913  | .9912  | .9911  | .9910  | .9909  |
| 73.....                     | .9910                                                              | .9909  | .9908  | .9907  | .9906  | .9905  | .9904  | .9904  | .9903  | .9902  |
| 74.....                     | .9903                                                              | .9902  | .9901  | .9900  | .9899  | .9898  | .9897  | .9896  | .9895  | .9894  |
| 75.....                     | .9896                                                              | .9895  | .9894  | .9893  | .9892  | .9891  | .9890  | .9889  | .9888  | .9887  |
| 76.....                     | .9889                                                              | .9888  | .9887  | .9886  | .9885  | .9884  | .9883  | .9882  | .9880  | .9879  |
| 77.....                     | .9882                                                              | .9881  | .9880  | .9879  | .9878  | .9877  | .9875  | .9874  | .9873  | .9872  |
| 78.....                     | .9875                                                              | .9874  | .9872  | .9871  | .9870  | .9869  | .9868  | .9867  | .9865  | .9864  |
| 79.....                     | .9868                                                              | .9867  | .9865  | .9864  | .9863  | .9862  | .9860  | .9859  | .9858  | .9857  |
| 80.....                     | .9861                                                              | .9860  | .9858  | .9857  | .9856  | .9855  | .9853  | .9852  | .9850  | .9849  |
| 81.....                     | .9854                                                              | .9853  | .9851  | .9850  | .9849  | .9848  | .9846  | .9844  | .9842  | .9841  |
| 82.....                     | .9847                                                              | .9846  | .9844  | .9843  | .9842  | .9840  | .9838  | .9837  | .9835  | .9834  |
| 83.....                     | .9840                                                              | .9839  | .9837  | .9836  | .9834  | .9833  | .9831  | .9829  | .9827  | .9826  |
| 84.....                     | .9833                                                              | .9832  | .9830  | .9829  | .9827  | .9825  | .9823  | .9822  | .9820  | .9819  |
| 85.....                     | .9826                                                              | .9825  | .9823  | .9822  | .9820  | .9818  | .9816  | .9814  | .9812  | .9811  |
| 86.....                     | .9819                                                              | .9818  | .9816  | .9815  | .9813  | .9811  | .9809  | .9807  | .9805  | .9803  |
| 87.....                     | .9812                                                              | .9811  | .9809  | .9808  | .9806  | .9804  | .9801  | .9799  | .9797  | .9795  |
| 88.....                     | .9806                                                              | .9804  | .9802  | .9800  | .9798  | .9796  | .9794  | .9792  | .9790  | .9788  |
| 89.....                     | .9799                                                              | .9797  | .9795  | .9793  | .9791  | .9789  | .9786  | .9784  | .9782  | .9780  |
| 90.....                     | .9792                                                              | .9790  | .9788  | .9786  | .9784  | .9782  | .9779  | .9777  | .9775  | .9773  |

TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature—Continued.

| Observed tempera-<br>ture in °F. | Degrees A. P. I. at 60° F.                                         |        |        |        |        |        |        |        |        |        |
|----------------------------------|--------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                  | 80                                                                 | 81     | 82     | 83     | 84     | 85     | 86     | 87     | 88     | 89     |
|                                  | Volume at 60° F. occupied by unit volume at indicated temperature. |        |        |        |        |        |        |        |        |        |
| 0.....                           | 1.0451                                                             | 1.0455 | 1.0459 | 1.0463 | 1.0467 | 1.0471 | 1.0476 | 1.0480 | 1.0485 | 1.0490 |
| 1.....                           | 1.0444                                                             | 1.0448 | 1.0452 | 1.0455 | 1.0459 | 1.0463 | 1.0468 | 1.0472 | 1.0477 | 1.0482 |
| 2.....                           | 1.0436                                                             | 1.0440 | 1.0444 | 1.0448 | 1.0452 | 1.0456 | 1.0460 | 1.0464 | 1.0469 | 1.0474 |
| 3.....                           | 1.0429                                                             | 1.0433 | 1.0437 | 1.0440 | 1.0444 | 1.0448 | 1.0453 | 1.0457 | 1.0461 | 1.0466 |
| 4.....                           | 1.0421                                                             | 1.0425 | 1.0429 | 1.0433 | 1.0437 | 1.0441 | 1.0445 | 1.0449 | 1.0453 | 1.0458 |
| 5.....                           | 1.0414                                                             | 1.0418 | 1.0422 | 1.0425 | 1.0429 | 1.0433 | 1.0437 | 1.0441 | 1.0445 | 1.0450 |
| 6.....                           | 1.0407                                                             | 1.0410 | 1.0414 | 1.0417 | 1.0421 | 1.0425 | 1.0429 | 1.0433 | 1.0437 | 1.0442 |
| 7.....                           | 1.0399                                                             | 1.0403 | 1.0407 | 1.0410 | 1.0413 | 1.0417 | 1.0421 | 1.0425 | 1.0429 | 1.0434 |
| 8.....                           | 1.0392                                                             | 1.0395 | 1.0399 | 1.0402 | 1.0406 | 1.0410 | 1.0414 | 1.0417 | 1.0421 | 1.0425 |
| 9.....                           | 1.0384                                                             | 1.0388 | 1.0392 | 1.0395 | 1.0398 | 1.0402 | 1.0406 | 1.0409 | 1.0413 | 1.0417 |
| 10.....                          | 1.0377                                                             | 1.0380 | 1.0384 | 1.0387 | 1.0390 | 1.0394 | 1.0398 | 1.0401 | 1.0405 | 1.0409 |
| 11.....                          | 1.0370                                                             | 1.0373 | 1.0376 | 1.0379 | 1.0382 | 1.0386 | 1.0390 | 1.0393 | 1.0397 | 1.0401 |
| 12.....                          | 1.0362                                                             | 1.0365 | 1.0369 | 1.0372 | 1.0375 | 1.0378 | 1.0382 | 1.0385 | 1.0389 | 1.0393 |
| 13.....                          | 1.0355                                                             | 1.0358 | 1.0361 | 1.0364 | 1.0367 | 1.0371 | 1.0375 | 1.0378 | 1.0381 | 1.0385 |
| 14.....                          | 1.0347                                                             | 1.0350 | 1.0354 | 1.0357 | 1.0360 | 1.0363 | 1.0367 | 1.0370 | 1.0373 | 1.0377 |
| 15.....                          | 1.0340                                                             | 1.0343 | 1.0346 | 1.0349 | 1.0352 | 1.0355 | 1.0359 | 1.0362 | 1.0365 | 1.0369 |
| 16.....                          | 1.0332                                                             | 1.0335 | 1.0338 | 1.0341 | 1.0344 | 1.0347 | 1.0351 | 1.0354 | 1.0357 | 1.0361 |
| 17.....                          | 1.0325                                                             | 1.0328 | 1.0331 | 1.0333 | 1.0336 | 1.0339 | 1.0343 | 1.0346 | 1.0349 | 1.0353 |
| 18.....                          | 1.0317                                                             | 1.0320 | 1.0323 | 1.0326 | 1.0329 | 1.0332 | 1.0335 | 1.0338 | 1.0341 | 1.0344 |
| 19.....                          | 1.0310                                                             | 1.0313 | 1.0316 | 1.0318 | 1.0321 | 1.0324 | 1.0327 | 1.0330 | 1.0333 | 1.0336 |
| 20.....                          | 1.0302                                                             | 1.0305 | 1.0308 | 1.0310 | 1.0313 | 1.0316 | 1.0319 | 1.0322 | 1.0325 | 1.0328 |
| 21.....                          | 1.0295                                                             | 1.0297 | 1.0300 | 1.0302 | 1.0305 | 1.0308 | 1.0311 | 1.0314 | 1.0317 | 1.0320 |
| 22.....                          | 1.0287                                                             | 1.0290 | 1.0293 | 1.0295 | 1.0297 | 1.0300 | 1.0303 | 1.0306 | 1.0309 | 1.0312 |
| 23.....                          | 1.0280                                                             | 1.0282 | 1.0285 | 1.0287 | 1.0290 | 1.0293 | 1.0296 | 1.0298 | 1.0301 | 1.0304 |
| 24.....                          | 1.0272                                                             | 1.0275 | 1.0278 | 1.0280 | 1.0282 | 1.0285 | 1.0288 | 1.0290 | 1.0293 | 1.0296 |
| 25.....                          | 1.0265                                                             | 1.0267 | 1.0270 | 1.0272 | 1.0274 | 1.0277 | 1.0280 | 1.0282 | 1.0285 | 1.0288 |
| 26.....                          | 1.0257                                                             | 1.0259 | 1.0262 | 1.0264 | 1.0266 | 1.0269 | 1.0272 | 1.0274 | 1.0277 | 1.0280 |
| 27.....                          | 1.0250                                                             | 1.0252 | 1.0254 | 1.0256 | 1.0258 | 1.0261 | 1.0264 | 1.0266 | 1.0269 | 1.0272 |
| 28.....                          | 1.0242                                                             | 1.0244 | 1.0247 | 1.0249 | 1.0251 | 1.0253 | 1.0256 | 1.0258 | 1.0261 | 1.0263 |
| 29.....                          | 1.0235                                                             | 1.0237 | 1.0239 | 1.0241 | 1.0243 | 1.0245 | 1.0248 | 1.0250 | 1.0253 | 1.0255 |
| 30.....                          | 1.0227                                                             | 1.0229 | 1.0231 | 1.0233 | 1.0235 | 1.0237 | 1.0240 | 1.0242 | 1.0245 | 1.0247 |
| 31.....                          | 1.0220                                                             | 1.0221 | 1.0223 | 1.0225 | 1.0227 | 1.0229 | 1.0232 | 1.0234 | 1.0237 | 1.0239 |
| 32.....                          | 1.0212                                                             | 1.0214 | 1.0216 | 1.0217 | 1.0219 | 1.0221 | 1.0224 | 1.0226 | 1.0229 | 1.0231 |
| 33.....                          | 1.0205                                                             | 1.0206 | 1.0208 | 1.0210 | 1.0212 | 1.0214 | 1.0216 | 1.0218 | 1.0220 | 1.0222 |
| 34.....                          | 1.0197                                                             | 1.0199 | 1.0201 | 1.0202 | 1.0204 | 1.0206 | 1.0208 | 1.0210 | 1.0212 | 1.0214 |
| 35.....                          | 1.0190                                                             | 1.0191 | 1.0193 | 1.0194 | 1.0196 | 1.0198 | 1.0200 | 1.0202 | 1.0204 | 1.0206 |
| 36.....                          | 1.0182                                                             | 1.0183 | 1.0185 | 1.0186 | 1.0188 | 1.0190 | 1.0192 | 1.0194 | 1.0196 | 1.0198 |
| 37.....                          | 1.0175                                                             | 1.0176 | 1.0178 | 1.0179 | 1.0180 | 1.0182 | 1.0184 | 1.0186 | 1.0188 | 1.0190 |
| 38.....                          | 1.0167                                                             | 1.0168 | 1.0170 | 1.0171 | 1.0173 | 1.0174 | 1.0176 | 1.0178 | 1.0180 | 1.0182 |
| 39.....                          | 1.0160                                                             | 1.0161 | 1.0163 | 1.0164 | 1.0165 | 1.0166 | 1.0168 | 1.0170 | 1.0172 | 1.0173 |
| 40.....                          | 1.0152                                                             | 1.0153 | 1.0155 | 1.0156 | 1.0157 | 1.0158 | 1.0160 | 1.0162 | 1.0164 | 1.0165 |
| 41.....                          | 1.0144                                                             | 1.0145 | 1.0147 | 1.0148 | 1.0149 | 1.0150 | 1.0152 | 1.0154 | 1.0156 | 1.0157 |
| 42.....                          | 1.0137                                                             | 1.0138 | 1.0139 | 1.0140 | 1.0141 | 1.0142 | 1.0144 | 1.0146 | 1.0148 | 1.0149 |
| 43.....                          | 1.0129                                                             | 1.0130 | 1.0132 | 1.0133 | 1.0134 | 1.0135 | 1.0136 | 1.0137 | 1.0139 | 1.0140 |
| 44.....                          | 1.0122                                                             | 1.0123 | 1.0124 | 1.0125 | 1.0126 | 1.0127 | 1.0128 | 1.0129 | 1.0131 | 1.0132 |

TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature—Continued.

| Observed temperature in °F. | Degrees A. P. I. at 60° F.                                         |        |        |        |        |        |        |        |        |        |
|-----------------------------|--------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 80                                                                 | 81     | 82     | 83     | 84     | 85     | 86     | 87     | 88     | 89     |
|                             | Volume at 60° F. occupied by unit volume at indicated temperature. |        |        |        |        |        |        |        |        |        |
| 45.....                     | 1.0114                                                             | 1.0115 | 1.0116 | 1.0117 | 1.0118 | 1.0119 | 1.0120 | 1.0121 | 1.0123 | 1.0124 |
| 46.....                     | 1.0106                                                             | 1.0107 | 1.0108 | 1.0109 | 1.0110 | 1.0111 | 1.0112 | 1.0113 | 1.0115 | 1.0116 |
| 47.....                     | 1.0099                                                             | 1.0099 | 1.0100 | 1.0101 | 1.0102 | 1.0103 | 1.0104 | 1.0105 | 1.0107 | 1.0108 |
| 48.....                     | 1.0091                                                             | 1.0092 | 1.0093 | 1.0094 | 1.0095 | 1.0095 | 1.0095 | 1.0097 | 1.0098 | 1.0099 |
| 49.....                     | 1.0084                                                             | 1.0084 | 1.0085 | 1.0086 | 1.0087 | 1.0087 | 1.0088 | 1.0089 | 1.0090 | 1.0091 |
| 50.....                     | 1.0076                                                             | 1.0076 | 1.0077 | 1.0078 | 1.0079 | 1.0079 | 1.0080 | 1.0081 | 1.0082 | 1.0083 |
| 51.....                     | 1.0068                                                             | 1.0068 | 1.0069 | 1.0070 | 1.0071 | 1.0071 | 1.0072 | 1.0073 | 1.0074 | 1.0075 |
| 52.....                     | 1.0061                                                             | 1.0061 | 1.0062 | 1.0062 | 1.0063 | 1.0063 | 1.0064 | 1.0065 | 1.0066 | 1.0066 |
| 53.....                     | 1.0053                                                             | 1.0053 | 1.0054 | 1.0055 | 1.0056 | 1.0056 | 1.0056 | 1.0056 | 1.0057 | 1.0058 |
| 54.....                     | 1.0046                                                             | 1.0046 | 1.0047 | 1.0047 | 1.0048 | 1.0048 | 1.0048 | 1.0048 | 1.0049 | 1.0049 |
| 55.....                     | 1.0038                                                             | 1.0038 | 1.0039 | 1.0039 | 1.0040 | 1.0040 | 1.0040 | 1.0040 | 1.0041 | 1.0041 |
| 56.....                     | 1.0030                                                             | 1.0030 | 1.0031 | 1.0031 | 1.0032 | 1.0032 | 1.0032 | 1.0032 | 1.0033 | 1.0033 |
| 57.....                     | 1.0023                                                             | 1.0023 | 1.0023 | 1.0023 | 1.0024 | 1.0024 | 1.0024 | 1.0024 | 1.0025 | 1.0025 |
| 58.....                     | 1.0015                                                             | 1.0015 | 1.0016 | 1.0016 | 1.0016 | 1.0016 | 1.0016 | 1.0016 | 1.0016 | 1.0016 |
| 59.....                     | 1.0008                                                             | 1.0008 | 1.0008 | 1.0008 | 1.0008 | 1.0008 | 1.0008 | 1.0008 | 1.0008 | 1.0008 |
| 60.....                     | 1.0000                                                             | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 61.....                     | .9992                                                              | .9992  | .9992  | .9992  | .9992  | .9992  | .9992  | .9992  | .9992  | .9992  |
| 62.....                     | .9985                                                              | .9985  | .9984  | .9984  | .9984  | .9984  | .9984  | .9984  | .9984  | .9984  |
| 63.....                     | .9977                                                              | .9977  | .9977  | .9977  | .9977  | .9977  | .9976  | .9976  | .9975  | .9975  |
| 64.....                     | .9970                                                              | .9970  | .9969  | .9969  | .9969  | .9969  | .9968  | .9968  | .9967  | .9967  |
| 65.....                     | .9962                                                              | .9962  | .9961  | .9961  | .9961  | .9961  | .9960  | .9960  | .9959  | .9959  |
| 66.....                     | .9954                                                              | .9954  | .9953  | .9953  | .9953  | .9953  | .9952  | .9952  | .9951  | .9951  |
| 67.....                     | .9947                                                              | .9946  | .9945  | .9945  | .9945  | .9945  | .9944  | .9944  | .9943  | .9942  |
| 68.....                     | .9939                                                              | .9939  | .9938  | .9938  | .9937  | .9936  | .9935  | .9935  | .9934  | .9934  |
| 69.....                     | .9932                                                              | .9931  | .9930  | .9930  | .9929  | .9928  | .9927  | .9927  | .9926  | .9925  |
| 70.....                     | .9924                                                              | .9923  | .9922  | .9922  | .9921  | .9920  | .9919  | .9919  | .9918  | .9917  |
| 71.....                     | .9916                                                              | .9915  | .9914  | .9914  | .9913  | .9912  | .9911  | .9911  | .9910  | .9909  |
| 72.....                     | .9908                                                              | .9907  | .9906  | .9906  | .9905  | .9904  | .9903  | .9903  | .9902  | .9901  |
| 73.....                     | .9901                                                              | .9900  | .9899  | .9898  | .9897  | .9896  | .9895  | .9894  | .9893  | .9892  |
| 74.....                     | .9893                                                              | .9892  | .9891  | .9890  | .9889  | .9888  | .9887  | .9886  | .9885  | .9884  |
| 75.....                     | .9885                                                              | .9884  | .9883  | .9882  | .9881  | .9880  | .9879  | .9878  | .9877  | .9876  |
| 76.....                     | .9877                                                              | .9876  | .9875  | .9874  | .9873  | .9872  | .9871  | .9870  | .9869  | .9868  |
| 77.....                     | .9870                                                              | .9869  | .9867  | .9866  | .9865  | .9864  | .9863  | .9862  | .9860  | .9859  |
| 78.....                     | .9862                                                              | .9861  | .9860  | .9859  | .9857  | .9856  | .9854  | .9853  | .9852  | .9851  |
| 79.....                     | .9855                                                              | .9854  | .9852  | .9851  | .9849  | .9848  | .9846  | .9845  | .9843  | .9842  |
| 80.....                     | .9847                                                              | .9846  | .9844  | .9843  | .9841  | .9840  | .9838  | .9837  | .9835  | .9834  |
| 81.....                     | .9839                                                              | .9838  | .9836  | .9835  | .9833  | .9832  | .9830  | .9829  | .9827  | .9825  |
| 82.....                     | .9832                                                              | .9830  | .9828  | .9827  | .9825  | .9824  | .9822  | .9821  | .9819  | .9817  |
| 83.....                     | .9824                                                              | .9823  | .9821  | .9820  | .9818  | .9816  | .9814  | .9812  | .9810  | .9808  |
| 84.....                     | .9817                                                              | .9815  | .9813  | .9812  | .9810  | .9808  | .9806  | .9804  | .9802  | .9800  |
| 85.....                     | .9809                                                              | .9807  | .9805  | .9804  | .9802  | .9800  | .9798  | .9796  | .9794  | .9792  |
| 86.....                     | .9801                                                              | .9799  | .9797  | .9796  | .9794  | .9792  | .9790  | .9788  | .9786  | .9784  |
| 87.....                     | .9793                                                              | .9791  | .9789  | .9788  | .9786  | .9784  | .9782  | .9780  | .9778  | .9775  |
| 88.....                     | .9786                                                              | .9784  | .9782  | .9780  | .9778  | .9776  | .9773  | .9771  | .9769  | .9767  |
| 89.....                     | .9778                                                              | .9776  | .9774  | .9772  | .9770  | .9768  | .9765  | .9763  | .9761  | .9758  |
| 90.....                     | .9770                                                              | .9768  | .9766  | .9764  | .9762  | .9760  | .9757  | .9755  | .9753  | .9750  |



TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature—Continued.

| Observed temperature in °F. | Degrees A. P. I. at 60° F.                                         |        |        |        |        |        |        |        |        |        |
|-----------------------------|--------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 90                                                                 | 91     | 92     | 93     | 94     | 95     | 96     | 97     | 98     | 99     |
|                             | Volume at 60° F. occupied by unit volume at indicated temperature. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 1.0496                                                             | 1.0501 | 1.0506 | 1.0511 | 1.0516 | 1.0521 | 1.0526 | 1.0531 | 1.0536 | 1.0541 |
| 1.....                      | 1.0488                                                             | 1.0493 | 1.0498 | 1.0503 | 1.0508 | 1.0512 | 1.0517 | 1.0522 | 1.0527 | 1.0532 |
| 2.....                      | 1.0480                                                             | 1.0484 | 1.0489 | 1.0494 | 1.0499 | 1.0504 | 1.0509 | 1.0513 | 1.0518 | 1.0523 |
| 3.....                      | 1.0471                                                             | 1.0476 | 1.0481 | 1.0486 | 1.0491 | 1.0495 | 1.0500 | 1.0505 | 1.0510 | 1.0515 |
| 4.....                      | 1.0463                                                             | 1.0467 | 1.0472 | 1.0477 | 1.0482 | 1.0487 | 1.0492 | 1.0496 | 1.0501 | 1.0506 |
| 5.....                      | 1.0455                                                             | 1.0459 | 1.0464 | 1.0469 | 1.0474 | 1.0478 | 1.0483 | 1.0487 | 1.0492 | 1.0497 |
| 6.....                      | 1.0447                                                             | 1.0451 | 1.0456 | 1.0460 | 1.0465 | 1.0469 | 1.0474 | 1.0478 | 1.0483 | 1.0488 |
| 7.....                      | 1.0439                                                             | 1.0443 | 1.0447 | 1.0452 | 1.0457 | 1.0461 | 1.0466 | 1.0470 | 1.0474 | 1.0479 |
| 8.....                      | 1.0430                                                             | 1.0434 | 1.0439 | 1.0443 | 1.0448 | 1.0452 | 1.0457 | 1.0461 | 1.0466 | 1.0470 |
| 9.....                      | 1.0422                                                             | 1.0426 | 1.0430 | 1.0435 | 1.0440 | 1.0444 | 1.0449 | 1.0453 | 1.0457 | 1.0461 |
| 10.....                     | 1.0414                                                             | 1.0418 | 1.0422 | 1.0426 | 1.0431 | 1.0435 | 1.0440 | 1.0444 | 1.0448 | 1.0452 |
| 11.....                     | 1.0406                                                             | 1.0410 | 1.0414 | 1.0418 | 1.0423 | 1.0427 | 1.0431 | 1.0435 | 1.0439 | 1.0443 |
| 12.....                     | 1.0398                                                             | 1.0402 | 1.0406 | 1.0410 | 1.0414 | 1.0418 | 1.0423 | 1.0426 | 1.0430 | 1.0434 |
| 13.....                     | 1.0389                                                             | 1.0393 | 1.0397 | 1.0401 | 1.0406 | 1.0410 | 1.0414 | 1.0418 | 1.0422 | 1.0426 |
| 14.....                     | 1.0381                                                             | 1.0385 | 1.0389 | 1.0393 | 1.0397 | 1.0401 | 1.0406 | 1.0409 | 1.0413 | 1.0417 |
| 15.....                     | 1.0373                                                             | 1.0377 | 1.0381 | 1.0385 | 1.0389 | 1.0393 | 1.0397 | 1.0400 | 1.0404 | 1.0408 |
| 16.....                     | 1.0365                                                             | 1.0369 | 1.0373 | 1.0376 | 1.0380 | 1.0384 | 1.0388 | 1.0391 | 1.0395 | 1.0399 |
| 17.....                     | 1.0357                                                             | 1.0360 | 1.0364 | 1.0368 | 1.0372 | 1.0375 | 1.0379 | 1.0382 | 1.0386 | 1.0390 |
| 18.....                     | 1.0348                                                             | 1.0352 | 1.0356 | 1.0359 | 1.0363 | 1.0367 | 1.0371 | 1.0374 | 1.0378 | 1.0381 |
| 19.....                     | 1.0340                                                             | 1.0343 | 1.0347 | 1.0351 | 1.0355 | 1.0358 | 1.0362 | 1.0365 | 1.0369 | 1.0372 |
| 20.....                     | 1.0332                                                             | 1.0335 | 1.0339 | 1.0342 | 1.0346 | 1.0349 | 1.0353 | 1.0356 | 1.0360 | 1.0363 |
| 21.....                     | 1.0324                                                             | 1.0327 | 1.0331 | 1.0334 | 1.0337 | 1.0340 | 1.0344 | 1.0347 | 1.0351 | 1.0354 |
| 22.....                     | 1.0316                                                             | 1.0319 | 1.0322 | 1.0325 | 1.0329 | 1.0332 | 1.0335 | 1.0338 | 1.0342 | 1.0345 |
| 23.....                     | 1.0307                                                             | 1.0310 | 1.0314 | 1.0317 | 1.0320 | 1.0323 | 1.0327 | 1.0330 | 1.0333 | 1.0336 |
| 24.....                     | 1.0299                                                             | 1.0302 | 1.0305 | 1.0308 | 1.0312 | 1.0315 | 1.0318 | 1.0321 | 1.0324 | 1.0327 |
| 25.....                     | 1.0291                                                             | 1.0294 | 1.0297 | 1.0300 | 1.0303 | 1.0306 | 1.0309 | 1.0312 | 1.0315 | 1.0318 |
| 26.....                     | 1.0283                                                             | 1.0286 | 1.0289 | 1.0291 | 1.0294 | 1.0297 | 1.0300 | 1.0303 | 1.0306 | 1.0309 |
| 27.....                     | 1.0275                                                             | 1.0277 | 1.0280 | 1.0283 | 1.0286 | 1.0289 | 1.0292 | 1.0294 | 1.0297 | 1.0300 |
| 28.....                     | 1.0266                                                             | 1.0269 | 1.0272 | 1.0274 | 1.0277 | 1.0280 | 1.0283 | 1.0286 | 1.0289 | 1.0291 |
| 29.....                     | 1.0258                                                             | 1.0260 | 1.0263 | 1.0266 | 1.0269 | 1.0272 | 1.0275 | 1.0277 | 1.0280 | 1.0282 |
| 30.....                     | 1.0250                                                             | 1.0252 | 1.0255 | 1.0257 | 1.0260 | 1.0263 | 1.0266 | 1.0268 | 1.0271 | 1.0273 |
| 31.....                     | 1.0242                                                             | 1.0244 | 1.0247 | 1.0249 | 1.0251 | 1.0254 | 1.0257 | 1.0259 | 1.0262 | 1.0264 |
| 32.....                     | 1.0234                                                             | 1.0236 | 1.0238 | 1.0240 | 1.0243 | 1.0245 | 1.0248 | 1.0250 | 1.0253 | 1.0255 |
| 33.....                     | 1.0225                                                             | 1.0227 | 1.0230 | 1.0232 | 1.0234 | 1.0237 | 1.0240 | 1.0242 | 1.0244 | 1.0246 |
| 34.....                     | 1.0217                                                             | 1.0219 | 1.0221 | 1.0223 | 1.0226 | 1.0228 | 1.0231 | 1.0233 | 1.0235 | 1.0237 |
| 35.....                     | 1.0209                                                             | 1.0211 | 1.0213 | 1.0215 | 1.0217 | 1.0219 | 1.0222 | 1.0224 | 1.0226 | 1.0228 |
| 36.....                     | 1.0201                                                             | 1.0203 | 1.0205 | 1.0206 | 1.0208 | 1.0210 | 1.0213 | 1.0215 | 1.0217 | 1.0219 |
| 37.....                     | 1.0192                                                             | 1.0194 | 1.0196 | 1.0198 | 1.0200 | 1.0202 | 1.0204 | 1.0206 | 1.0208 | 1.0210 |
| 38.....                     | 1.0184                                                             | 1.0186 | 1.0188 | 1.0189 | 1.0191 | 1.0193 | 1.0196 | 1.0197 | 1.0199 | 1.0200 |
| 39.....                     | 1.0175                                                             | 1.0177 | 1.0179 | 1.0181 | 1.0183 | 1.0185 | 1.0187 | 1.0188 | 1.0190 | 1.0191 |
| 40.....                     | 1.0167                                                             | 1.0169 | 1.0171 | 1.0172 | 1.0174 | 1.0176 | 1.0178 | 1.0179 | 1.0181 | 1.0182 |
| 41.....                     | 1.0159                                                             | 1.0160 | 1.0162 | 1.0163 | 1.0165 | 1.0167 | 1.0169 | 1.0170 | 1.0172 | 1.0173 |
| 42.....                     | 1.0150                                                             | 1.0152 | 1.0154 | 1.0155 | 1.0157 | 1.0158 | 1.0160 | 1.0161 | 1.0163 | 1.0164 |
| 43.....                     | 1.0142                                                             | 1.0143 | 1.0145 | 1.0146 | 1.0148 | 1.0149 | 1.0151 | 1.0152 | 1.0154 | 1.0155 |
| 44.....                     | 1.0133                                                             | 1.0135 | 1.0137 | 1.0138 | 1.0140 | 1.0141 | 1.0142 | 1.0143 | 1.0145 | 1.0146 |

TABLE 2.—Volume at 60° F. Occupied by Unit Volume at Indicated Temperature—Continued.

| Observed temperature in °F. | Degrees A. P. I. at 60° F.                                         |        |        |        |        |        |        |        |        |        |
|-----------------------------|--------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 90                                                                 | 91     | 92     | 93     | 94     | 95     | 96     | 97     | 98     | 99     |
|                             | Volume at 60° F. occupied by unit volume at indicated temperature. |        |        |        |        |        |        |        |        |        |
| 45.....                     | 1.0125                                                             | 1.0126 | 1.0128 | 1.0129 | 1.0131 | 1.0132 | 1.0133 | 1.0134 | 1.0136 | 1.0137 |
| 46.....                     | 1.0117                                                             | 1.0118 | 1.0119 | 1.0120 | 1.0122 | 1.0123 | 1.0124 | 1.0125 | 1.0127 | 1.0128 |
| 47.....                     | 1.0109                                                             | 1.0110 | 1.0111 | 1.0112 | 1.0113 | 1.0114 | 1.0115 | 1.0116 | 1.0118 | 1.0119 |
| 48.....                     | 1.0100                                                             | 1.0101 | 1.0102 | 1.0103 | 1.0105 | 1.0106 | 1.0107 | 1.0108 | 1.0109 | 1.0109 |
| 49.....                     | 1.0092                                                             | 1.0093 | 1.0094 | 1.0095 | 1.0096 | 1.0097 | 1.0098 | 1.0099 | 1.0100 | 1.0100 |
| 50.....                     | 1.0084                                                             | 1.0084 | 1.0085 | 1.0086 | 1.0087 | 1.0088 | 1.0089 | 1.0090 | 1.0091 | 1.0091 |
| 51.....                     | 1.0076                                                             | 1.0076 | 1.0077 | 1.0077 | 1.0078 | 1.0079 | 1.0080 | 1.0081 | 1.0082 | 1.0082 |
| 52.....                     | 1.0067                                                             | 1.0067 | 1.0068 | 1.0069 | 1.0070 | 1.0071 | 1.0072 | 1.0073 | 1.0073 | 1.0073 |
| 53.....                     | 1.0059                                                             | 1.0059 | 1.0060 | 1.0060 | 1.0061 | 1.0062 | 1.0062 | 1.0063 | 1.0063 | 1.0063 |
| 54.....                     | 1.0050                                                             | 1.0050 | 1.0051 | 1.0052 | 1.0053 | 1.0053 | 1.0054 | 1.0054 | 1.0054 | 1.0054 |
| 55.....                     | 1.0042                                                             | 1.0042 | 1.0043 | 1.0043 | 1.0044 | 1.0044 | 1.0045 | 1.0045 | 1.0045 | 1.0045 |
| 56.....                     | 1.0034                                                             | 1.0034 | 1.0034 | 1.0034 | 1.0035 | 1.0035 | 1.0036 | 1.0036 | 1.0036 | 1.0036 |
| 57.....                     | 1.0025                                                             | 1.0025 | 1.0026 | 1.0026 | 1.0026 | 1.0027 | 1.0027 | 1.0027 | 1.0027 | 1.0027 |
| 58.....                     | 1.0017                                                             | 1.0017 | 1.0017 | 1.0017 | 1.0018 | 1.0018 | 1.0018 | 1.0018 | 1.0018 | 1.0018 |
| 59.....                     | 1.0008                                                             | 1.0008 | 1.0009 | 1.0009 | 1.0009 | 1.0009 | 1.0009 | 1.0009 | 1.0009 | 1.0009 |
| 60.....                     | 1.0000                                                             | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 61.....                     | .9992                                                              | .9992  | .9991  | .9991  | .9991  | .9991  | .9991  | .9991  | .9991  | .9991  |
| 62.....                     | .9983                                                              | .9983  | .9983  | .9983  | .9982  | .9982  | .9982  | .9982  | .9982  | .9982  |
| 63.....                     | .9975                                                              | .9975  | .9974  | .9974  | .9974  | .9974  | .9973  | .9973  | .9972  | .9972  |
| 64.....                     | .9966                                                              | .9966  | .9966  | .9966  | .9965  | .9965  | .9964  | .9964  | .9963  | .9963  |
| 65.....                     | 0.9958                                                             | .9958  | 0.9957 | .9957  | 0.9956 | .9956  | 0.9955 | .9955  | 0.9954 | .9954  |
| 66.....                     | .9950                                                              | .9949  | .9948  | .9948  | .9947  | .9947  | .9946  | .9946  | .9945  | .9945  |
| 67.....                     | .9941                                                              | .9941  | .9940  | .9940  | .9939  | .9938  | .9937  | .9937  | .9936  | .9936  |
| 68.....                     | .9933                                                              | .9932  | .9931  | .9931  | .9930  | .9930  | .9929  | .9928  | .9927  | .9927  |
| 69.....                     | .9924                                                              | .9924  | .9923  | .9923  | .9922  | .9921  | .9920  | .9919  | .9918  | .9917  |
| 70.....                     | .9916                                                              | .9915  | .9914  | .9914  | .9913  | .9912  | .9911  | .9910  | .9909  | .9908  |
| 71.....                     | .9908                                                              | .9907  | .9905  | .9905  | .9904  | .9903  | .9902  | .9901  | .9900  | .9899  |
| 72.....                     | .9899                                                              | .9898  | .9897  | .9896  | .9895  | .9894  | .9893  | .9892  | .9891  | .9890  |
| 73.....                     | .9891                                                              | .9890  | .9888  | .9888  | .9887  | .9886  | .9884  | .9883  | .9881  | .9880  |
| 74.....                     | .9882                                                              | .9881  | .9880  | .9879  | .9878  | .9877  | .9875  | .9874  | .9872  | .9871  |
| 75.....                     | .9874                                                              | .9873  | .9871  | .9870  | .9869  | .9868  | .9866  | .9865  | .9863  | .9862  |
| 76.....                     | .9866                                                              | .9864  | .9862  | .9861  | .9860  | .9859  | .9857  | .9856  | .9854  | .9853  |
| 77.....                     | .9857                                                              | .9856  | .9854  | .9853  | .9851  | .9850  | .9848  | .9847  | .9845  | .9844  |
| 78.....                     | .9849                                                              | .9847  | .9845  | .9844  | .9843  | .9841  | .9839  | .9838  | .9836  | .9835  |
| 79.....                     | .9840                                                              | .9839  | .9837  | .9836  | .9834  | .9832  | .9830  | .9829  | .9827  | .9825  |
| 80.....                     | .9832                                                              | .9830  | .9828  | .9827  | .9825  | .9823  | .9821  | .9820  | .9818  | .9816  |
| 81.....                     | .9823                                                              | .9821  | .9819  | .9818  | .9816  | .9814  | .9812  | .9811  | .9809  | .9807  |
| 82.....                     | .9815                                                              | .9813  | .9811  | .9809  | .9807  | .9805  | .9803  | .9802  | .9800  | .9798  |
| 83.....                     | .9806                                                              | .9804  | .9802  | .9801  | .9799  | .9797  | .9794  | .9792  | .9790  | .9788  |
| 84.....                     | .9798                                                              | .9796  | .9794  | .9792  | .9790  | .9788  | .9785  | .9783  | .9781  | .9779  |
| 85.....                     | .9789                                                              | .9787  | .9785  | .9783  | .9781  | .9779  | .9776  | .9774  | .9772  | .9770  |
| 86.....                     | .9781                                                              | .9779  | .9776  | .9774  | .9772  | .9770  | .9767  | .9765  | .9763  | .9761  |
| 87.....                     | .9772                                                              | .9770  | .9768  | .9766  | .9763  | .9761  | .9758  | .9756  | .9754  | .9751  |
| 88.....                     | .9764                                                              | .9762  | .9759  | .9757  | .9754  | .9752  | .9749  | .9747  | .9744  | .9742  |
| 89.....                     | .9755                                                              | .9753  | .9751  | .9748  | .9745  | .9743  | .9740  | .9738  | .9735  | .9732  |
| 90.....                     | .9747                                                              | .9745  | .9742  | .9739  | .9736  | .9734  | .9731  | .9729  | .9726  | .9723  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.

[This table shows the specific gravity at 60°/60° F. of oils having, at the observed temperatures, the specific gravity indicated. For example, if the observed specific gravity at 95° F. is 0.740 the specific gravity at 60°/60° F. will be 0.7553. Intermediate values can be conveniently interpolated. For example, if the observed specific gravity at 95° F. is 0.7405 the specific gravity at 60°/60° F. will be 0.7558. The headings "Observed specific gravity" and "Observed temperature" signify the true indication of the hydrometer and the true temperature of the oil; that is, the observed readings corrected for instrumental errors. (This table is so computed as to take into account the thermal expansion of the glass of which the hydrometer is made.)]

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.600                                          | 0.601  | 0.602  | 0.603  | 0.604  | 0.605  | 0.606  | 0.607  | 0.608  | 0.609  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.5634                                         | 0.5645 | 0.5656 | 0.5666 | 0.5677 | 0.5688 | 0.5699 | 0.5709 | 0.5720 | 0.5732 |
| 1.....                      | .5641                                          | .5652  | .5663  | .5673  | .5684  | .5695  | .5706  | .5716  | .5727  | .5738  |
| 2.....                      | .5648                                          | .5659  | .5669  | .5680  | .5691  | .5702  | .5712  | .5723  | .5734  | .5745  |
| 3.....                      | .5654                                          | .5665  | .5675  | .5686  | .5697  | .5708  | .5718  | .5729  | .5740  | .5751  |
| 4.....                      | .5660                                          | .5671  | .5682  | .5693  | .5704  | .5714  | .5725  | .5735  | .5746  | .5757  |
| 5.....                      | .5667                                          | .5678  | .5688  | .5699  | .5710  | .5720  | .5731  | .5741  | .5752  | .5763  |
| 6.....                      | .5673                                          | .5684  | .5694  | .5705  | .5716  | .5726  | .5737  | .5747  | .5758  | .5769  |
| 7.....                      | .5680                                          | .5690  | .5701  | .5711  | .5722  | .5732  | .5743  | .5753  | .5764  | .5775  |
| 8.....                      | .5686                                          | .5696  | .5707  | .5717  | .5728  | .5738  | .5749  | .5759  | .5770  | .5781  |
| 9.....                      | .5692                                          | .5703  | .5714  | .5724  | .5735  | .5745  | .5756  | .5766  | .5777  | .5787  |
| 10.....                     | .5699                                          | .5710  | .5720  | .5731  | .5741  | .5752  | .5762  | .5773  | .5783  | .5794  |
| 11.....                     | .5705                                          | .5716  | .5726  | .5737  | .5747  | .5758  | .5768  | .5779  | .5789  | .5800  |
| 12.....                     | .5712                                          | .5722  | .5733  | .5743  | .5754  | .5764  | .5775  | .5785  | .5796  | .5806  |
| 13.....                     | .5718                                          | .5728  | .5739  | .5749  | .5760  | .5770  | .5781  | .5791  | .5802  | .5812  |
| 14.....                     | .5724                                          | .5734  | .5745  | .5755  | .5766  | .5776  | .5787  | .5797  | .5808  | .5818  |
| 15.....                     | .5730                                          | .5741  | .5751  | .5762  | .5772  | .5783  | .5793  | .5804  | .5814  | .5825  |
| 16.....                     | .5736                                          | .5747  | .5757  | .5768  | .5778  | .5789  | .5799  | .5810  | .5820  | .5831  |
| 17.....                     | .5743                                          | .5754  | .5764  | .5775  | .5785  | .5796  | .5806  | .5817  | .5827  | .5838  |
| 18.....                     | .5749                                          | .5760  | .5770  | .5781  | .5791  | .5802  | .5812  | .5823  | .5833  | .5844  |
| 19.....                     | .5756                                          | .5766  | .5777  | .5787  | .5798  | .5808  | .5819  | .5829  | .5840  | .5850  |
| 20.....                     | .5762                                          | .5772  | .5783  | .5793  | .5804  | .5814  | .5825  | .5835  | .5846  | .5856  |
| 21.....                     | .5768                                          | .5778  | .5789  | .5799  | .5810  | .5820  | .5831  | .5841  | .5852  | .5862  |
| 22.....                     | .5774                                          | .5784  | .5795  | .5805  | .5816  | .5826  | .5837  | .5847  | .5858  | .5868  |
| 23.....                     | .5780                                          | .5790  | .5801  | .5811  | .5822  | .5832  | .5843  | .5853  | .5864  | .5874  |
| 24.....                     | .5786                                          | .5797  | .5807  | .5818  | .5828  | .5838  | .5849  | .5859  | .5869  | .5880  |
| 25.....                     | .5792                                          | .5803  | .5813  | .5824  | .5834  | .5844  | .5855  | .5865  | .5875  | .5886  |
| 26.....                     | .5798                                          | .5809  | .5819  | .5830  | .5840  | .5850  | .5861  | .5871  | .5881  | .5892  |
| 27.....                     | .5804                                          | .5815  | .5825  | .5836  | .5846  | .5856  | .5867  | .5877  | .5887  | .5898  |
| 28.....                     | .5810                                          | .5821  | .5831  | .5842  | .5852  | .5862  | .5873  | .5883  | .5893  | .5904  |
| 29.....                     | .5816                                          | .5827  | .5837  | .5848  | .5858  | .5868  | .5879  | .5889  | .5899  | .5910  |
| 30.....                     | .5822                                          | .5833  | .5843  | .5854  | .5864  | .5874  | .5885  | .5895  | .5905  | .5916  |
| 31.....                     | .5829                                          | .5839  | .5849  | .5860  | .5870  | .5880  | .5891  | .5901  | .5911  | .5922  |
| 32.....                     | .5835                                          | .5845  | .5856  | .5866  | .5876  | .5886  | .5897  | .5907  | .5917  | .5928  |
| 33.....                     | .5842                                          | .5852  | .5862  | .5872  | .5883  | .5893  | .5903  | .5913  | .5924  | .5934  |
| 34.....                     | .5848                                          | .5858  | .5868  | .5878  | .5889  | .5899  | .5909  | .5920  | .5930  | .5940  |
| 35.....                     | .5854                                          | .5864  | .5874  | .5884  | .5895  | .5905  | .5915  | .5926  | .5936  | .5946  |
| 36.....                     | .5860                                          | .5870  | .5880  | .5890  | .5901  | .5911  | .5921  | .5932  | .5942  | .5952  |
| 37.....                     | .5866                                          | .5876  | .5886  | .5896  | .5907  | .5917  | .5927  | .5938  | .5948  | .5958  |
| 38.....                     | .5872                                          | .5882  | .5892  | .5902  | .5913  | .5923  | .5933  | .5944  | .5954  | .5964  |
| 39.....                     | .5878                                          | .5888  | .5898  | .5908  | .5919  | .5929  | .5939  | .5950  | .5960  | .5970  |
| 40.....                     | .5884                                          | .5894  | .5904  | .5914  | .5925  | .5935  | .5945  | .5956  | .5966  | .5976  |
| 41.....                     | .5889                                          | .5899  | .5909  | .5919  | .5930  | .5940  | .5950  | .5961  | .5971  | .5981  |
| 42.....                     | .5895                                          | .5905  | .5915  | .5925  | .5936  | .5946  | .5956  | .5966  | .5977  | .5987  |
| 43.....                     | .5901                                          | .5911  | .5921  | .5931  | .5942  | .5952  | .5962  | .5972  | .5983  | .5993  |
| 44.....                     | .5907                                          | .5917  | .5927  | .5937  | .5948  | .5958  | .5968  | .5978  | .5989  | .5999  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in ° F. | Observed specific gravity.                     |         |         |         |         |         |         |         |         |         |
|------------------------------|------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                              | 0. 600                                         | 0. 601  | 0. 602  | 0. 603  | 0. 604  | 0. 605  | 0. 606  | 0. 607  | 0. 608  | 0. 609  |
|                              | Corresponding specific gravities at 60°/60° F. |         |         |         |         |         |         |         |         |         |
| 45.....                      | 0. 5913                                        | 0. 5923 | 0. 5933 | 0. 5943 | 0. 5953 | 0. 5964 | 0. 5974 | 0. 5984 | 0. 5994 | 0. 6004 |
| 46.....                      | . 5919                                         | . 5929  | . 5939  | . 5949  | . 5959  | . 5970  | . 5980  | . 5990  | . 6000  | . 6010  |
| 47.....                      | . 5925                                         | . 5935  | . 5945  | . 5955  | . 5965  | . 5976  | . 5986  | . 5996  | . 6006  | . 6016  |
| 48.....                      | . 5930                                         | . 5940  | . 5950  | . 5961  | . 5971  | . 5981  | . 5991  | . 6001  | . 6012  | . 6022  |
| 49.....                      | . 5936                                         | . 5946  | . 5956  | . 5967  | . 5977  | . 5987  | . 5997  | . 6007  | . 6018  | . 6028  |
| 50.....                      | . 5942                                         | . 5952  | . 5962  | . 5973  | . 5983  | . 5993  | . 6003  | . 6013  | . 6024  | . 6034  |
| 51.....                      | . 5947                                         | . 5957  | . 5967  | . 5978  | . 5988  | . 5998  | . 6008  | . 6019  | . 6029  | . 6039  |
| 52.....                      | . 5953                                         | . 5963  | . 5973  | . 5983  | . 5993  | . 6004  | . 6014  | . 6024  | . 6034  | . 6044  |
| 53.....                      | . 5959                                         | . 5969  | . 5979  | . 5989  | . 5999  | . 6010  | . 6020  | . 6030  | . 6040  | . 6050  |
| 54.....                      | . 5965                                         | . 5975  | . 5985  | . 5995  | . 6005  | . 6016  | . 6026  | . 6036  | . 6046  | . 6056  |
| 55.....                      | . 5971                                         | . 5981  | . 5991  | . 6001  | . 6011  | . 6022  | . 6032  | . 6042  | . 6052  | . 6062  |
| 56.....                      | . 5977                                         | . 5987  | . 5997  | . 6007  | . 6017  | . 6027  | . 6037  | . 6047  | . 6057  | . 6067  |
| 57.....                      | . 5983                                         | . 5993  | . 6003  | . 6013  | . 6023  | . 6033  | . 6043  | . 6053  | . 6063  | . 6073  |
| 58.....                      | . 5989                                         | . 5999  | . 6009  | . 6019  | . 6029  | . 6039  | . 6049  | . 6059  | . 6069  | . 6079  |
| 59.....                      | . 5994                                         | . 6004  | . 6014  | . 6024  | . 6034  | . 6044  | . 6054  | . 6064  | . 6074  | . 6084  |
| 60.....                      | . 6000                                         | . 6010  | . 6020  | . 6030  | . 6040  | . 6050  | . 6060  | . 6070  | . 6080  | . 6090  |
| 61.....                      | . 6006                                         | . 6016  | . 6026  | . 6036  | . 6046  | . 6056  | . 6066  | . 6076  | . 6086  | . 6096  |
| 62.....                      | . 6012                                         | . 6022  | . 6032  | . 6042  | . 6052  | . 6061  | . 6071  | . 6081  | . 6091  | . 6101  |
| 63.....                      | . 6018                                         | . 6028  | . 6038  | . 6048  | . 6058  | . 6067  | . 6077  | . 6087  | . 6097  | . 6107  |
| 64.....                      | . 6024                                         | . 6034  | . 6044  | . 6054  | . 6064  | . 6073  | . 6083  | . 6093  | . 6103  | . 6113  |
| 65.....                      | . 6029                                         | . 6039  | . 6049  | . 6059  | . 6069  | . 6078  | . 6088  | . 6098  | . 6108  | . 6118  |
| 66.....                      | . 6034                                         | . 6044  | . 6054  | . 6064  | . 6074  | . 6083  | . 6093  | . 6103  | . 6113  | . 6123  |
| 67.....                      | . 6040                                         | . 6050  | . 6060  | . 6070  | . 6080  | . 6089  | . 6099  | . 6109  | . 6119  | . 6129  |
| 68.....                      | . 6045                                         | . 6055  | . 6065  | . 6075  | . 6085  | . 6094  | . 6104  | . 6114  | . 6124  | . 6134  |
| 69.....                      | . 6051                                         | . 6061  | . 6071  | . 6081  | . 6091  | . 6100  | . 6110  | . 6120  | . 6130  | . 6140  |
| 70.....                      | . 6057                                         | . 6067  | . 6077  | . 6087  | . 6096  | . 6106  | . 6116  | . 6126  | . 6135  | . 6145  |
| 71.....                      | . 6063                                         | . 6073  | . 6083  | . 6093  | . 6102  | . 6112  | . 6122  | . 6132  | . 6141  | . 6151  |
| 72.....                      | . 6068                                         | . 6078  | . 6088  | . 6098  | . 6107  | . 6117  | . 6127  | . 6137  | . 6146  | . 6156  |
| 73.....                      | . 6074                                         | . 6084  | . 6094  | . 6104  | . 6113  | . 6123  | . 6133  | . 6142  | . 6152  | . 6162  |
| 74.....                      | . 6080                                         | . 6090  | . 6100  | . 6110  | . 6119  | . 6129  | . 6139  | . 6148  | . 6158  | . 6168  |
| 75.....                      | . 6085                                         | . 6095  | . 6105  | . 6115  | . 6124  | . 6134  | . 6144  | . 6153  | . 6163  | . 6173  |
| 76.....                      | . 6090                                         | . 6100  | . 6110  | . 6120  | . 6129  | . 6139  | . 6149  | . 6159  | . 6168  | . 6178  |
| 77.....                      | . 6096                                         | . 6106  | . 6115  | . 6125  | . 6135  | . 6144  | . 6154  | . 6164  | . 6173  | . 6183  |
| 78.....                      | . 6101                                         | . 6111  | . 6121  | . 6131  | . 6140  | . 6150  | . 6160  | . 6170  | . 6179  | . 6189  |
| 79.....                      | . 6106                                         | . 6116  | . 6126  | . 6136  | . 6145  | . 6155  | . 6165  | . 6175  | . 6184  | . 6194  |
| 80.....                      | . 6112                                         | . 6122  | . 6132  | . 6142  | . 6151  | . 6161  | . 6171  | . 6181  | . 6190  | . 6200  |
| 81.....                      | . 6117                                         | . 6127  | . 6137  | . 6147  | . 6156  | . 6166  | . 6176  | . 6186  | . 6195  | . 6205  |
| 82.....                      | . 6123                                         | . 6133  | . 6143  | . 6152  | . 6162  | . 6172  | . 6181  | . 6191  | . 6201  | . 6210  |
| 83.....                      | . 6129                                         | . 6139  | . 6149  | . 6158  | . 6168  | . 6178  | . 6187  | . 6197  | . 6207  | . 6216  |
| 84.....                      | . 6135                                         | . 6145  | . 6155  | . 6164  | . 6174  | . 6183  | . 6193  | . 6203  | . 6212  | . 6222  |
| 85.....                      | . 6140                                         | . 6150  | . 6160  | . 6169  | . 6179  | . 6188  | . 6198  | . 6208  | . 6217  | . 6227  |
| 86.....                      | . 6145                                         | . 6155  | . 6165  | . 6174  | . 6184  | . 6193  | . 6203  | . 6213  | . 6222  | . 6232  |
| 87.....                      | . 6150                                         | . 6160  | . 6170  | . 6179  | . 6189  | . 6198  | . 6208  | . 6218  | . 6227  | . 6237  |
| 88.....                      | . 6155                                         | . 6165  | . 6175  | . 6184  | . 6194  | . 6203  | . 6213  | . 6223  | . 6232  | . 6242  |
| 89.....                      | . 6161                                         | . 6171  | . 6181  | . 6190  | . 6200  | . 6209  | . 6219  | . 6229  | . 6238  | . 6248  |
| 90.....                      | . 6166                                         | . 6176  | . 6186  | . 6195  | . 6205  | . 6214  | . 6224  | . 6234  | . 6243  | . 6253  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.610                                          | 0.611  | 0.612  | 0.613  | 0.614  | 0.615  | 0.616  | 0.617  | 0.618  | 0.619  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.5742                                         | 0.5753 | 0.5764 | 0.5774 | 0.5785 | 0.5796 | 0.5806 | 0.5817 | 0.5827 | 0.5838 |
| 1.....                      | .5749                                          | .5760  | .5771  | .5781  | .5792  | .5802  | .5813  | .5823  | .5834  | .5845  |
| 2.....                      | .5755                                          | .5766  | .5777  | .5787  | .5798  | .5808  | .5819  | .5829  | .5840  | .5851  |
| 3.....                      | .5761                                          | .5772  | .5783  | .5793  | .5804  | .5814  | .5825  | .5835  | .5846  | .5857  |
| 4.....                      | .5767                                          | .5778  | .5789  | .5799  | .5810  | .5820  | .5831  | .5841  | .5852  | .5863  |
| 5.....                      | .5773                                          | .5784  | .5795  | .5806  | .5816  | .5827  | .5837  | .5848  | .5859  | .5869  |
| 6.....                      | .5780                                          | .5791  | .5801  | .5812  | .5822  | .5833  | .5843  | .5854  | .5865  | .5875  |
| 7.....                      | .5786                                          | .5797  | .5807  | .5818  | .5828  | .5839  | .5849  | .5860  | .5871  | .5881  |
| 8.....                      | .5792                                          | .5803  | .5813  | .5824  | .5834  | .5845  | .5855  | .5866  | .5877  | .5888  |
| 9.....                      | .5798                                          | .5809  | .5819  | .5830  | .5840  | .5851  | .5861  | .5872  | .5883  | .5894  |
| 10.....                     | .5805                                          | .5816  | .5826  | .5837  | .5847  | .5858  | .5868  | .5879  | .5890  | .5900  |
| 11.....                     | .5811                                          | .5822  | .5832  | .5843  | .5853  | .5864  | .5874  | .5885  | .5896  | .5906  |
| 12.....                     | .5817                                          | .5828  | .5838  | .5849  | .5859  | .5870  | .5880  | .5891  | .5902  | .5912  |
| 13.....                     | .5823                                          | .5834  | .5844  | .5855  | .5865  | .5876  | .5886  | .5897  | .5908  | .5918  |
| 14.....                     | .5829                                          | .5840  | .5850  | .5861  | .5871  | .5882  | .5892  | .5903  | .5914  | .5924  |
| 15.....                     | .5836                                          | .5846  | .5857  | .5867  | .5878  | .5888  | .5899  | .5909  | .5920  | .5930  |
| 16.....                     | .5842                                          | .5852  | .5863  | .5873  | .5884  | .5894  | .5905  | .5915  | .5926  | .5936  |
| 17.....                     | .5848                                          | .5858  | .5869  | .5879  | .5890  | .5900  | .5911  | .5921  | .5932  | .5942  |
| 18.....                     | .5854                                          | .5864  | .5875  | .5885  | .5896  | .5906  | .5917  | .5927  | .5938  | .5948  |
| 19.....                     | .5861                                          | .5871  | .5882  | .5892  | .5903  | .5913  | .5924  | .5934  | .5945  | .5955  |
| 20.....                     | .5867                                          | .5877  | .5888  | .5898  | .5909  | .5919  | .5930  | .5940  | .5951  | .5961  |
| 21.....                     | .5873                                          | .5883  | .5894  | .5904  | .5915  | .5925  | .5935  | .5946  | .5956  | .5967  |
| 22.....                     | .5879                                          | .5889  | .5900  | .5910  | .5921  | .5931  | .5941  | .5952  | .5962  | .5973  |
| 23.....                     | .5885                                          | .5895  | .5905  | .5916  | .5926  | .5936  | .5947  | .5957  | .5967  | .5978  |
| 24.....                     | .5890                                          | .5900  | .5911  | .5921  | .5932  | .5942  | .5952  | .5963  | .5973  | .5984  |
| 25.....                     | .5896                                          | .5906  | .5917  | .5927  | .5938  | .5948  | .5958  | .5969  | .5979  | .5990  |
| 26.....                     | .5902                                          | .5912  | .5923  | .5933  | .5944  | .5954  | .5964  | .5975  | .5985  | .5996  |
| 27.....                     | .5908                                          | .5918  | .5929  | .5939  | .5950  | .5960  | .5970  | .5981  | .5991  | .6002  |
| 28.....                     | .5914                                          | .5924  | .5935  | .5945  | .5956  | .5966  | .5976  | .5987  | .5997  | .6008  |
| 29.....                     | .5920                                          | .5930  | .5941  | .5951  | .5962  | .5972  | .5982  | .5993  | .6003  | .6014  |
| 30.....                     | .5926                                          | .5936  | .5947  | .5957  | .5968  | .5978  | .5988  | .5999  | .6009  | .6020  |
| 31.....                     | .5932                                          | .5942  | .5953  | .5963  | .5974  | .5984  | .5994  | .6005  | .6015  | .6026  |
| 32.....                     | .5938                                          | .5948  | .5959  | .5969  | .5979  | .5989  | .6000  | .6010  | .6021  | .6031  |
| 33.....                     | .5944                                          | .5954  | .5964  | .5975  | .5985  | .5995  | .6006  | .6016  | .6026  | .6037  |
| 34.....                     | .5950                                          | .5960  | .5970  | .5981  | .5991  | .6001  | .6012  | .6022  | .6032  | .6043  |
| 35.....                     | .5956                                          | .5966  | .5976  | .5987  | .5997  | .6007  | .6018  | .6028  | .6038  | .6049  |
| 36.....                     | .5962                                          | .5972  | .5982  | .5993  | .6003  | .6013  | .6024  | .6034  | .6044  | .6055  |
| 37.....                     | .5968                                          | .5978  | .5988  | .5998  | .6008  | .6019  | .6029  | .6039  | .6049  | .6060  |
| 38.....                     | .5974                                          | .5984  | .5994  | .6004  | .6014  | .6025  | .6035  | .6045  | .6055  | .6066  |
| 39.....                     | .5980                                          | .5990  | .6000  | .6010  | .6020  | .6031  | .6041  | .6051  | .6061  | .6072  |
| 40.....                     | .5986                                          | .5996  | .6006  | .6016  | .6026  | .6037  | .6047  | .6057  | .6067  | .6078  |
| 41.....                     | .5991                                          | .6001  | .6011  | .6022  | .6032  | .6042  | .6053  | .6063  | .6073  | .6084  |
| 42.....                     | .5997                                          | .6007  | .6017  | .6027  | .6037  | .6048  | .6058  | .6068  | .6079  | .6089  |
| 43.....                     | .6003                                          | .6013  | .6023  | .6033  | .6043  | .6054  | .6064  | .6074  | .6085  | .6095  |
| 44.....                     | .6009                                          | .6019  | .6029  | .6039  | .6049  | .6060  | .6070  | .6080  | .6091  | .6101  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.610                                          | 0.611  | 0.612  | 0.613  | 0.614  | 0.615  | 0.616  | 0.617  | 0.618  | 0.619  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 45.....                     | 0.6014                                         | 0.6024 | 0.6034 | 0.6044 | 0.6055 | 0.6065 | 0.6075 | 0.6085 | 0.6096 | 0.6106 |
| 46.....                     | .6020                                          | .6030  | .6040  | .6050  | .6061  | .6071  | .6081  | .6091  | .6102  | .6112  |
| 47.....                     | .6026                                          | .6036  | .6046  | .6056  | .6066  | .6077  | .6087  | .6097  | .6107  | .6117  |
| 48.....                     | .6032                                          | .6042  | .6052  | .6062  | .6072  | .6083  | .6093  | .6103  | .6113  | .6123  |
| 49.....                     | .6038                                          | .6048  | .6058  | .6068  | .6078  | .6089  | .6099  | .6109  | .6119  | .6129  |
| 50.....                     | .6044                                          | .6054  | .6064  | .6074  | .6084  | .6095  | .6105  | .6115  | .6125  | .6135  |
| 51.....                     | .6049                                          | .6059  | .6069  | .6079  | .6089  | .6100  | .6110  | .6120  | .6130  | .6140  |
| 52.....                     | .6054                                          | .6064  | .6074  | .6084  | .6094  | .6105  | .6115  | .6125  | .6135  | .6145  |
| 53.....                     | .6060                                          | .6070  | .6080  | .6090  | .6100  | .6111  | .6121  | .6131  | .6141  | .6151  |
| 54.....                     | .6066                                          | .6076  | .6086  | .6096  | .6106  | .6116  | .6126  | .6136  | .6146  | .6156  |
| 55.....                     | .6072                                          | .6082  | .6092  | .6102  | .6112  | .6122  | .6132  | .6142  | .6152  | .6162  |
| 56.....                     | .6077                                          | .6087  | .6097  | .6107  | .6117  | .6128  | .6138  | .6148  | .6158  | .6168  |
| 57.....                     | .6083                                          | .6093  | .6103  | .6113  | .6123  | .6133  | .6143  | .6153  | .6163  | .6173  |
| 58.....                     | .6089                                          | .6099  | .6109  | .6119  | .6129  | .6139  | .6149  | .6159  | .6169  | .6179  |
| 59.....                     | .6094                                          | .6104  | .6114  | .6124  | .6134  | .6144  | .6154  | .6164  | .6174  | .6184  |
| 60.....                     | .6100                                          | .6110  | .6120  | .6130  | .6140  | .6150  | .6160  | .6170  | .6180  | .6190  |
| 61.....                     | .6106                                          | .6116  | .6126  | .6136  | .6146  | .6155  | .6165  | .6175  | .6185  | .6195  |
| 62.....                     | .6111                                          | .6121  | .6131  | .6141  | .6151  | .6160  | .6170  | .6180  | .6190  | .6200  |
| 63.....                     | .6117                                          | .6127  | .6137  | .6147  | .6157  | .6166  | .6176  | .6186  | .6196  | .6206  |
| 64.....                     | .6123                                          | .6133  | .6143  | .6153  | .6163  | .6172  | .6182  | .6192  | .6202  | .6212  |
| 65.....                     | .6128                                          | .6138  | .6148  | .6158  | .6168  | .6177  | .6187  | .6197  | .6207  | .6217  |
| 66.....                     | .6133                                          | .6143  | .6153  | .6163  | .6173  | .6183  | .6193  | .6203  | .6213  | .6223  |
| 67.....                     | .6139                                          | .6149  | .6159  | .6169  | .6179  | .6188  | .6198  | .6208  | .6218  | .6228  |
| 68.....                     | .6144                                          | .6154  | .6164  | .6174  | .6184  | .6193  | .6203  | .6213  | .6223  | .6233  |
| 69.....                     | .6150                                          | .6160  | .6170  | .6180  | .6190  | .6199  | .6209  | .6219  | .6229  | .6239  |
| 70.....                     | .6155                                          | .6165  | .6175  | .6185  | .6195  | .6204  | .6214  | .6224  | .6234  | .6244  |
| 71.....                     | .6161                                          | .6171  | .6181  | .6191  | .6201  | .6210  | .6220  | .6230  | .6240  | .6250  |
| 72.....                     | .6166                                          | .6176  | .6186  | .6196  | .6206  | .6215  | .6225  | .6235  | .6245  | .6255  |
| 73.....                     | .6172                                          | .6182  | .6192  | .6201  | .6211  | .6221  | .6231  | .6241  | .6250  | .6260  |
| 74.....                     | .6178                                          | .6188  | .6198  | .6207  | .6217  | .6227  | .6237  | .6247  | .6256  | .6266  |
| 75.....                     | .6183                                          | .6193  | .6203  | .6212  | .6222  | .6232  | .6242  | .6252  | .6261  | .6271  |
| 76.....                     | .6188                                          | .6198  | .6208  | .6218  | .6227  | .6237  | .6247  | .6257  | .6266  | .6276  |
| 77.....                     | .6193                                          | .6203  | .6213  | .6223  | .6233  | .6242  | .6252  | .6262  | .6272  | .6282  |
| 78.....                     | .6199                                          | .6209  | .6219  | .6229  | .6238  | .6248  | .6258  | .6268  | .6278  | .6287  |
| 79.....                     | .6204                                          | .6214  | .6224  | .6234  | .6243  | .6253  | .6263  | .6273  | .6283  | .6292  |
| 80.....                     | .6210                                          | .6220  | .6230  | .6240  | .6249  | .6259  | .6269  | .6279  | .6289  | .6298  |
| 81.....                     | .6215                                          | .6225  | .6235  | .6245  | .6254  | .6264  | .6274  | .6284  | .6294  | .6303  |
| 82.....                     | .6220                                          | .6230  | .6240  | .6250  | .6259  | .6269  | .6279  | .6289  | .6299  | .6308  |
| 83.....                     | .6226                                          | .6236  | .6245  | .6255  | .6265  | .6274  | .6284  | .6294  | .6304  | .6313  |
| 84.....                     | .6232                                          | .6242  | .6251  | .6261  | .6271  | .6280  | .6290  | .6300  | .6310  | .6319  |
| 85.....                     | .6237                                          | .6247  | .6256  | .6266  | .6276  | .6285  | .6295  | .6305  | .6315  | .6324  |
| 86.....                     | .6242                                          | .6252  | .6262  | .6271  | .6281  | .6291  | .6300  | .6310  | .6320  | .6329  |
| 87.....                     | .6247                                          | .6257  | .6267  | .6277  | .6287  | .6296  | .6306  | .6316  | .6326  | .6335  |
| 88.....                     | .6252                                          | .6262  | .6272  | .6282  | .6292  | .6301  | .6311  | .6321  | .6331  | .6340  |
| 89.....                     | .6258                                          | .6268  | .6278  | .6287  | .6297  | .6307  | .6316  | .6326  | .6336  | .6345  |
| 90.....                     | .6263                                          | .6273  | .6283  | .6292  | .6302  | .6312  | .6321  | .6331  | .6341  | .6350  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.620                                          | 0.621  | 0.622  | 0.623  | 0.624  | 0.625  | 0.626  | 0.627  | 0.628  | 0.629  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.5849                                         | 0.5859 | 0.5870 | 0.5881 | 0.5892 | 0.5903 | 0.5914 | 0.5924 | 0.5935 | 0.5946 |
| 1.....                      | .5856                                          | .5866  | .5877  | .5888  | .5899  | .5910  | .5920  | .5931  | .5942  | .5953  |
| 2.....                      | .5862                                          | .5872  | .5883  | .5894  | .5905  | .5916  | .5926  | .5937  | .5948  | .5959  |
| 3.....                      | .5868                                          | .5878  | .5889  | .5900  | .5911  | .5922  | .5932  | .5943  | .5954  | .5965  |
| 4.....                      | .5874                                          | .5884  | .5895  | .5906  | .5917  | .5928  | .5938  | .5949  | .5960  | .5971  |
| 5.....                      | .5880                                          | .5891  | .5901  | .5912  | .5923  | .5934  | .5944  | .5955  | .5965  | .5976  |
| 6.....                      | .5886                                          | .5897  | .5907  | .5918  | .5929  | .5940  | .5950  | .5961  | .5971  | .5982  |
| 7.....                      | .5892                                          | .5903  | .5913  | .5924  | .5935  | .5946  | .5956  | .5967  | .5977  | .5988  |
| 8.....                      | .5899                                          | .5909  | .5920  | .5930  | .5941  | .5952  | .5962  | .5973  | .5984  | .5994  |
| 9.....                      | .5905                                          | .5915  | .5926  | .5936  | .5947  | .5958  | .5968  | .5979  | .5990  | .6000  |
| 10.....                     | .5911                                          | .5921  | .5932  | .5942  | .5953  | .5964  | .5974  | .5985  | .5996  | .6006  |
| 11.....                     | .5917                                          | .5927  | .5938  | .5948  | .5959  | .5969  | .5980  | .5991  | .6002  | .6012  |
| 12.....                     | .5923                                          | .5933  | .5944  | .5954  | .5965  | .5975  | .5986  | .5997  | .6008  | .6018  |
| 13.....                     | .5929                                          | .5939  | .5950  | .5960  | .5971  | .5981  | .5992  | .6003  | .6014  | .6024  |
| 14.....                     | .5935                                          | .5945  | .5956  | .5966  | .5977  | .5987  | .5998  | .6009  | .6020  | .6030  |
| 15.....                     | .5941                                          | .5951  | .5962  | .5972  | .5983  | .5993  | .6004  | .6015  | .6026  | .6036  |
| 16.....                     | .5947                                          | .5957  | .5968  | .5978  | .5989  | .5999  | .6010  | .6021  | .6032  | .6042  |
| 17.....                     | .5953                                          | .5963  | .5974  | .5984  | .5995  | .6005  | .6016  | .6027  | .6038  | .6048  |
| 18.....                     | .5959                                          | .5969  | .5980  | .5990  | .6001  | .6011  | .6022  | .6033  | .6044  | .6054  |
| 19.....                     | .5966                                          | .5976  | .5987  | .5997  | .6008  | .6018  | .6029  | .6039  | .6050  | .6060  |
| 20.....                     | .5972                                          | .5982  | .5993  | .6003  | .6014  | .6024  | .6035  | .6045  | .6056  | .6066  |
| 21.....                     | .5977                                          | .5987  | .5998  | .6008  | .6019  | .6029  | .6040  | .6050  | .6061  | .6072  |
| 22.....                     | .5983                                          | .5993  | .6004  | .6014  | .6025  | .6035  | .6046  | .6056  | .6067  | .6078  |
| 23.....                     | .5989                                          | .5999  | .6010  | .6020  | .6031  | .6041  | .6052  | .6062  | .6073  | .6083  |
| 24.....                     | .5994                                          | .6004  | .6015  | .6025  | .6036  | .6046  | .6057  | .6067  | .6078  | .6088  |
| 25.....                     | .6000                                          | .6010  | .6021  | .6031  | .6042  | .6052  | .6063  | .6073  | .6084  | .6094  |
| 26.....                     | .6006                                          | .6016  | .6027  | .6037  | .6048  | .6058  | .6069  | .6079  | .6090  | .6100  |
| 27.....                     | .6012                                          | .6022  | .6033  | .6043  | .6054  | .6064  | .6075  | .6085  | .6096  | .6106  |
| 28.....                     | .6018                                          | .6028  | .6038  | .6049  | .6059  | .6070  | .6080  | .6090  | .6101  | .6111  |
| 29.....                     | .6024                                          | .6034  | .6044  | .6055  | .6065  | .6076  | .6086  | .6096  | .6107  | .6117  |
| 30.....                     | .6030                                          | .6040  | .6050  | .6061  | .6071  | .6082  | .6092  | .6102  | .6113  | .6123  |
| 31.....                     | .6036                                          | .6046  | .6055  | .6067  | .6077  | .6088  | .6098  | .6108  | .6119  | .6129  |
| 32.....                     | .6042                                          | .6052  | .6062  | .6073  | .6083  | .6094  | .6104  | .6114  | .6125  | .6135  |
| 33.....                     | .6047                                          | .6057  | .6067  | .6078  | .6088  | .6099  | .6109  | .6119  | .6130  | .6140  |
| 34.....                     | .6053                                          | .6063  | .6073  | .6084  | .6094  | .6104  | .6114  | .6124  | .6135  | .6146  |
| 35.....                     | .6059                                          | .6069  | .6079  | .6090  | .6100  | .6110  | .6120  | .6130  | .6141  | .6152  |
| 36.....                     | .6065                                          | .6075  | .6085  | .6096  | .6106  | .6116  | .6126  | .6136  | .6147  | .6158  |
| 37.....                     | .6070                                          | .6080  | .6090  | .6101  | .6111  | .6121  | .6132  | .6142  | .6152  | .6163  |
| 38.....                     | .6076                                          | .6086  | .6096  | .6107  | .6117  | .6127  | .6138  | .6148  | .6158  | .6169  |
| 39.....                     | .6082                                          | .6092  | .6102  | .6113  | .6123  | .6133  | .6144  | .6154  | .6164  | .6175  |
| 40.....                     | .6088                                          | .6098  | .6108  | .6118  | .6129  | .6139  | .6149  | .6159  | .6170  | .6180  |
| 41.....                     | .6094                                          | .6104  | .6114  | .6124  | .6135  | .6145  | .6155  | .6165  | .6176  | .6186  |
| 42.....                     | .6099                                          | .6109  | .6119  | .6129  | .6140  | .6150  | .6160  | .6170  | .6181  | .6190  |
| 43.....                     | .6105                                          | .6115  | .6125  | .6135  | .6146  | .6156  | .6166  | .6176  | .6186  | .6197  |
| 44.....                     | .6111                                          | .6121  | .6131  | .6141  | .6152  | .6162  | .6172  | .6182  | .6192  | .6203  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.620                                          | 0.621  | 0.622  | 0.623  | 0.624  | 0.625  | 0.626  | 0.627  | 0.628  | 0.629  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 45.....                     | 0.6116                                         | 0.6126 | 0.6136 | 0.6147 | 0.6157 | 0.6167 | 0.6177 | 0.6187 | 0.6198 | 0.6208 |
| 46.....                     | .6122                                          | .6132  | .6142  | .6153  | .6163  | .6173  | .6183  | .6193  | .6204  | .6214  |
| 47.....                     | .6127                                          | .6137  | .6147  | .6158  | .6168  | .6178  | .6188  | .6198  | .6209  | .6219  |
| 48.....                     | .6133                                          | .6143  | .6153  | .6164  | .6174  | .6184  | .6194  | .6204  | .6215  | .6225  |
| 49.....                     | .6139                                          | .6149  | .6159  | .6169  | .6179  | .6190  | .6200  | .6210  | .6220  | .6230  |
| 50.....                     | .6145                                          | .6155  | .6165  | .6175  | .6185  | .6196  | .6206  | .6216  | .6226  | .6236  |
| 51.....                     | .6150                                          | .6160  | .6170  | .6180  | .6190  | .6201  | .6211  | .6221  | .6231  | .6241  |
| 52.....                     | .6155                                          | .6165  | .6175  | .6185  | .6195  | .6206  | .6216  | .6226  | .6236  | .6246  |
| 53.....                     | .6161                                          | .6170  | .6180  | .6190  | .6200  | .6211  | .6221  | .6231  | .6241  | .6251  |
| 54.....                     | .6166                                          | .6176  | .6186  | .6196  | .6206  | .6217  | .6227  | .6237  | .6247  | .6257  |
| 55.....                     | .6172                                          | .6182  | .6192  | .6202  | .6212  | .6223  | .6233  | .6243  | .6253  | .6263  |
| 56.....                     | .6178                                          | .6188  | .6198  | .6208  | .6218  | .6229  | .6239  | .6249  | .6259  | .6269  |
| 57.....                     | .6183                                          | .6193  | .6203  | .6213  | .6223  | .6234  | .6244  | .6254  | .6264  | .6274  |
| 58.....                     | .6189                                          | .6199  | .6209  | .6219  | .6229  | .6239  | .6249  | .6259  | .6269  | .6279  |
| 59.....                     | .6194                                          | .6204  | .6214  | .6224  | .6234  | .6244  | .6254  | .6264  | .6274  | .6284  |
| 60.....                     | .6200                                          | .6210  | .6220  | .6230  | .6240  | .6250  | .6260  | .6270  | .6280  | .6290  |
| 61.....                     | .6205                                          | .6215  | .6225  | .6235  | .6245  | .6255  | .6265  | .6275  | .6285  | .6295  |
| 62.....                     | .6210                                          | .6220  | .6230  | .6240  | .6250  | .6260  | .6270  | .6280  | .6290  | .6300  |
| 63.....                     | .6216                                          | .6226  | .6236  | .6246  | .6256  | .6266  | .6276  | .6286  | .6296  | .6306  |
| 64.....                     | .6222                                          | .6232  | .6242  | .6252  | .6262  | .6272  | .6282  | .6292  | .6302  | .6312  |
| 65.....                     | .6227                                          | .6237  | .6247  | .6257  | .6267  | .6277  | .6287  | .6297  | .6307  | .6317  |
| 66.....                     | .6233                                          | .6243  | .6253  | .6263  | .6273  | .6283  | .6293  | .6303  | .6313  | .6323  |
| 67.....                     | .6238                                          | .6248  | .6258  | .6268  | .6278  | .6288  | .6298  | .6308  | .6318  | .6328  |
| 68.....                     | .6243                                          | .6253  | .6263  | .6273  | .6283  | .6293  | .6303  | .6313  | .6323  | .6333  |
| 69.....                     | .6249                                          | .6259  | .6269  | .6279  | .6289  | .6298  | .6308  | .6318  | .6328  | .6338  |
| 70.....                     | .6254                                          | .6264  | .6274  | .6284  | .6294  | .6303  | .6313  | .6323  | .6333  | .6343  |
| 71.....                     | .6260                                          | .6270  | .6280  | .6290  | .6300  | .6309  | .6319  | .6329  | .6339  | .6349  |
| 72.....                     | .6265                                          | .6275  | .6285  | .6295  | .6305  | .6314  | .6324  | .6334  | .6344  | .6354  |
| 73.....                     | .6270                                          | .6280  | .6290  | .6300  | .6310  | .6319  | .6329  | .6339  | .6349  | .6359  |
| 74.....                     | .6276                                          | .6286  | .6296  | .6306  | .6315  | .6325  | .6335  | .6345  | .6355  | .6364  |
| 75.....                     | .6281                                          | .6291  | .6301  | .6311  | .6320  | .6330  | .6340  | .6350  | .6360  | .6369  |
| 76.....                     | .6286                                          | .6296  | .6306  | .6316  | .6325  | .6335  | .6345  | .6355  | .6365  | .6374  |
| 77.....                     | .6292                                          | .6302  | .6312  | .6321  | .6331  | .6341  | .6351  | .6361  | .6370  | .6380  |
| 78.....                     | .6297                                          | .6307  | .6317  | .6327  | .6336  | .6346  | .6356  | .6366  | .6376  | .6385  |
| 79.....                     | .6302                                          | .6312  | .6322  | .6332  | .6341  | .6351  | .6361  | .6371  | .6381  | .6390  |
| 80.....                     | .6308                                          | .6318  | .6328  | .6337  | .6347  | .6357  | .6367  | .6377  | .6386  | .6396  |
| 81.....                     | .6313                                          | .6323  | .6333  | .6342  | .6352  | .6362  | .6372  | .6382  | .6391  | .6401  |
| 82.....                     | .6318                                          | .6328  | .6338  | .6347  | .6357  | .6367  | .6377  | .6387  | .6396  | .6406  |
| 83.....                     | .6323                                          | .6333  | .6343  | .6352  | .6362  | .6372  | .6382  | .6392  | .6401  | .6411  |
| 84.....                     | .6329                                          | .6339  | .6349  | .6358  | .6368  | .6378  | .6388  | .6397  | .6407  | .6416  |
| 85.....                     | .6334                                          | .6344  | .6354  | .6363  | .6373  | .6383  | .6393  | .6402  | .6412  | .6421  |
| 86.....                     | .6339                                          | .6349  | .6359  | .6369  | .6378  | .6388  | .6398  | .6408  | .6418  | .6427  |
| 87.....                     | .6345                                          | .6355  | .6365  | .6374  | .6384  | .6394  | .6403  | .6413  | .6423  | .6432  |
| 88.....                     | .6350                                          | .6360  | .6370  | .6379  | .6389  | .6399  | .6408  | .6418  | .6428  | .6437  |
| 89.....                     | .6355                                          | .6365  | .6375  | .6384  | .6394  | .6404  | .6413  | .6423  | .6433  | .6442  |
| 90.....                     | .6360                                          | .6370  | .6380  | .6389  | .6399  | .6409  | .6419  | .6428  | .6438  | .6447  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in ° F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 0.630                                          | 0.631  | 0.632  | 0.633  | 0.634  | 0.635  | 0.636  | 0.637  | 0.638  | 0.639  |
|                              | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                       | 0.5957                                         | 0.5968 | 0.5979 | 0.5990 | 0.6001 | 0.6011 | 0.6022 | 0.6033 | 0.6044 | 0.6054 |
| 1.....                       | .5963                                          | .5974  | .5985  | .5995  | .6006  | .6017  | .6027  | .6038  | .6049  | .6059  |
| 2.....                       | .5969                                          | .5980  | .5991  | .6001  | .6012  | .6023  | .6033  | .6044  | .6055  | .6065  |
| 3.....                       | .5975                                          | .5986  | .5997  | .6007  | .6018  | .6029  | .6039  | .6050  | .6061  | .6071  |
| 4.....                       | .5981                                          | .5992  | .6003  | .6013  | .6024  | .6035  | .6045  | .6056  | .6067  | .6077  |
| 5.....                       | .5987                                          | .5998  | .6008  | .6019  | .6030  | .6040  | .6051  | .6061  | .6072  | .6083  |
| 6.....                       | .5993                                          | .6004  | .6014  | .6025  | .6036  | .6046  | .6057  | .6067  | .6078  | .6089  |
| 7.....                       | .5999                                          | .6010  | .6020  | .6031  | .6042  | .6052  | .6063  | .6073  | .6084  | .6095  |
| 8.....                       | .6005                                          | .6016  | .6026  | .6037  | .6048  | .6058  | .6069  | .6079  | .6090  | .6101  |
| 9.....                       | .6011                                          | .6022  | .6032  | .6043  | .6054  | .6064  | .6075  | .6085  | .6096  | .6107  |
| 10.....                      | .6017                                          | .6028  | .6038  | .6049  | .6060  | .6070  | .6081  | .6091  | .6102  | .6113  |
| 11.....                      | .6023                                          | .6034  | .6044  | .6055  | .6066  | .6076  | .6087  | .6097  | .6108  | .6119  |
| 12.....                      | .6029                                          | .6040  | .6050  | .6061  | .6072  | .6082  | .6093  | .6103  | .6114  | .6125  |
| 13.....                      | .6035                                          | .6046  | .6056  | .6067  | .6078  | .6088  | .6099  | .6109  | .6120  | .6131  |
| 14.....                      | .6041                                          | .6052  | .6062  | .6073  | .6084  | .6094  | .6105  | .6115  | .6126  | .6137  |
| 15.....                      | .6047                                          | .6057  | .6068  | .6078  | .6089  | .6100  | .6110  | .6121  | .6131  | .6142  |
| 16.....                      | .6053                                          | .6063  | .6074  | .6084  | .6095  | .6105  | .6116  | .6126  | .6137  | .6148  |
| 17.....                      | .6059                                          | .6069  | .6080  | .6090  | .6101  | .6111  | .6122  | .6132  | .6143  | .6154  |
| 18.....                      | .6065                                          | .6075  | .6086  | .6096  | .6106  | .6117  | .6127  | .6138  | .6148  | .6159  |
| 19.....                      | .6071                                          | .6081  | .6092  | .6102  | .6112  | .6123  | .6133  | .6144  | .6154  | .6165  |
| 20.....                      | .6077                                          | .6087  | .6098  | .6108  | .6118  | .6129  | .6139  | .6150  | .6160  | .6171  |
| 21.....                      | .6082                                          | .6092  | .6103  | .6113  | .6124  | .6134  | .6145  | .6155  | .6166  | .6176  |
| 22.....                      | .6088                                          | .6098  | .6109  | .6119  | .6130  | .6140  | .6151  | .6161  | .6172  | .6182  |
| 23.....                      | .6094                                          | .6104  | .6115  | .6125  | .6136  | .6146  | .6157  | .6167  | .6177  | .6188  |
| 24.....                      | .6099                                          | .6109  | .6121  | .6130  | .6141  | .6152  | .6162  | .6173  | .6183  | .6194  |
| 25.....                      | .6105                                          | .6115  | .6126  | .6136  | .6147  | .6157  | .6168  | .6178  | .6188  | .6199  |
| 26.....                      | .6111                                          | .6121  | .6132  | .6142  | .6153  | .6163  | .6174  | .6184  | .6194  | .6205  |
| 27.....                      | .6116                                          | .6127  | .6137  | .6147  | .6158  | .6168  | .6179  | .6189  | .6199  | .6210  |
| 28.....                      | .6122                                          | .6132  | .6143  | .6153  | .6164  | .6174  | .6185  | .6195  | .6205  | .6216  |
| 29.....                      | .6128                                          | .6138  | .6148  | .6159  | .6169  | .6179  | .6190  | .6200  | .6210  | .6221  |
| 30.....                      | .6134                                          | .6144  | .6154  | .6165  | .6175  | .6185  | .6196  | .6206  | .6216  | .6227  |
| 31.....                      | .6140                                          | .6150  | .6160  | .6171  | .6181  | .6191  | .6202  | .6212  | .6222  | .6233  |
| 32.....                      | .6146                                          | .6156  | .6166  | .6177  | .6187  | .6197  | .6208  | .6218  | .6228  | .6239  |
| 33.....                      | .6151                                          | .6161  | .6172  | .6182  | .6192  | .6203  | .6213  | .6223  | .6234  | .6244  |
| 34.....                      | .6156                                          | .6166  | .6177  | .6187  | .6198  | .6208  | .6218  | .6229  | .6239  | .6250  |
| 35.....                      | .6162                                          | .6172  | .6182  | .6193  | .6203  | .6213  | .6224  | .6234  | .6244  | .6255  |
| 36.....                      | .6168                                          | .6178  | .6188  | .6198  | .6209  | .6219  | .6229  | .6239  | .6250  | .6260  |
| 37.....                      | .6173                                          | .6183  | .6193  | .6204  | .6214  | .6224  | .6235  | .6245  | .6255  | .6266  |
| 38.....                      | .6179                                          | .6189  | .6199  | .6209  | .6220  | .6230  | .6240  | .6250  | .6261  | .6271  |
| 39.....                      | .6185                                          | .6195  | .6205  | .6215  | .6226  | .6236  | .6246  | .6256  | .6267  | .6277  |
| 40.....                      | .6190                                          | .6200  | .6210  | .6221  | .6231  | .6241  | .6251  | .6262  | .6272  | .6282  |
| 41.....                      | .6196                                          | .6206  | .6216  | .6227  | .6237  | .6247  | .6257  | .6268  | .6278  | .6288  |
| 42.....                      | .6201                                          | .6211  | .6221  | .6232  | .6242  | .6252  | .6262  | .6273  | .6283  | .6293  |
| 43.....                      | .6207                                          | .6217  | .6227  | .6238  | .6248  | .6258  | .6268  | .6278  | .6289  | .6299  |
| 44.....                      | .6213                                          | .6223  | .6233  | .6244  | .6254  | .6264  | .6274  | .6284  | .6295  | .6305  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |         |         |         |         |         |         |         |         |         |
|-----------------------------|------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                             | 0. 630                                         | 0. 631  | 0. 632  | 0. 633  | 0. 634  | 0. 635  | 0. 636  | 0. 637  | 0. 638  | 0. 639  |
|                             | Corresponding specific gravities at 60°/60° F. |         |         |         |         |         |         |         |         |         |
| 45.....                     | 0. 6218                                        | 0. 6228 | 0. 6238 | 0. 6249 | 0. 6259 | 0. 6269 | 0. 6279 | 0. 6289 | 0. 6300 | 0. 6310 |
| 46.....                     | . 6224                                         | . 6234  | . 6244  | . 6255  | . 6265  | . 6275  | . 6285  | . 6295  | . 6306  | . 6316  |
| 47.....                     | . 6229                                         | . 6239  | . 6249  | . 6260  | . 6270  | . 6280  | . 6290  | . 6300  | . 6311  | . 6321  |
| 48.....                     | . 6235                                         | . 6245  | . 6255  | . 6266  | . 6276  | . 6286  | . 6296  | . 6306  | . 6317  | . 6327  |
| 49.....                     | . 6240                                         | . 6250  | . 6260  | . 6271  | . 6181  | . 6291  | . 6301  | . 6311  | . 6322  | . 6332  |
| 50.....                     | . 6246                                         | . 6256  | . 6266  | . 6276  | . 6286  | . 6297  | . 6307  | . 6317  | . 6327  | . 6337  |
| 51.....                     | . 6251                                         | . 6261  | . 6271  | . 6281  | . 6291  | . 6302  | . 6312  | . 6322  | . 6332  | . 6342  |
| 52.....                     | . 6256                                         | . 6266  | . 6276  | . 6286  | . 6296  | . 6307  | . 6317  | . 6327  | . 6337  | . 6347  |
| 53.....                     | . 6262                                         | . 6272  | . 6282  | . 6292  | . 6302  | . 6313  | . 6323  | . 6333  | . 6343  | . 6353  |
| 54.....                     | . 6267                                         | . 6277  | . 6287  | . 6297  | . 6307  | . 6318  | . 6328  | . 6338  | . 6348  | . 6358  |
| 55.....                     | . 6273                                         | . 6283  | . 6293  | . 6303  | . 6313  | . 6324  | . 6334  | . 6344  | . 6354  | . 6364  |
| 56.....                     | . 6279                                         | . 6289  | . 6299  | . 6309  | . 6319  | . 6330  | . 6340  | . 6350  | . 6360  | . 6370  |
| 57.....                     | . 6284                                         | . 6294  | . 6304  | . 6314  | . 6324  | . 6335  | . 6345  | . 6355  | . 6365  | . 6375  |
| 58.....                     | . 6289                                         | . 6299  | . 6309  | . 6319  | . 6329  | . 6340  | . 6350  | . 6360  | . 6370  | . 6380  |
| 59.....                     | . 6294                                         | . 6304  | . 6314  | . 6324  | . 6334  | . 6345  | . 6355  | . 6365  | . 6375  | . 6385  |
| 60.....                     | . 6300                                         | . 6310  | . 6320  | . 6330  | . 6340  | . 6350  | . 6360  | . 6370  | . 6380  | . 6390  |
| 61.....                     | . 6305                                         | . 6315  | . 6325  | . 6335  | . 6345  | . 6355  | . 6365  | . 6375  | . 6385  | . 6395  |
| 62.....                     | . 6310                                         | . 6320  | . 6330  | . 6340  | . 6350  | . 6360  | . 6370  | . 6380  | . 6390  | . 6400  |
| 63.....                     | . 6316                                         | . 6326  | . 6336  | . 6346  | . 6356  | . 6366  | . 6376  | . 6386  | . 6396  | . 6406  |
| 64.....                     | . 6322                                         | . 6332  | . 6342  | . 6352  | . 6362  | . 6371  | . 6381  | . 6391  | . 6401  | . 6411  |
| 65.....                     | . 6327                                         | . 6337  | . 6347  | . 6357  | . 6367  | . 6377  | . 6387  | . 6397  | . 6407  | . 6417  |
| 66.....                     | . 6333                                         | . 6343  | . 6353  | . 6363  | . 6373  | . 6382  | . 6392  | . 6402  | . 6412  | . 6422  |
| 67.....                     | . 6338                                         | . 6348  | . 6358  | . 6368  | . 6378  | . 6387  | . 6397  | . 6407  | . 6417  | . 6427  |
| 68.....                     | . 6343                                         | . 6353  | . 6363  | . 6373  | . 6383  | . 6392  | . 6402  | . 6412  | . 6422  | . 6432  |
| 69.....                     | . 6348                                         | . 6358  | . 6368  | . 6378  | . 6388  | . 6397  | . 6407  | . 6417  | . 6427  | . 6437  |
| 70.....                     | . 6353                                         | . 6363  | . 6373  | . 6383  | . 6393  | . 6402  | . 6412  | . 6422  | . 6432  | . 6442  |
| 71.....                     | . 6359                                         | . 6369  | . 6379  | . 6389  | . 6399  | . 6408  | . 6418  | . 6428  | . 6438  | . 6448  |
| 72.....                     | . 6364                                         | . 6374  | . 6384  | . 6394  | . 6404  | . 6413  | . 6423  | . 6433  | . 6443  | . 6453  |
| 73.....                     | . 6369                                         | . 6379  | . 6389  | . 6399  | . 6409  | . 6418  | . 6428  | . 6438  | . 6448  | . 6458  |
| 74.....                     | . 6374                                         | . 6384  | . 6394  | . 6404  | . 6414  | . 6423  | . 6433  | . 6443  | . 6453  | . 6463  |
| 75.....                     | . 6379                                         | . 6389  | . 6399  | . 6409  | . 6419  | . 6428  | . 6438  | . 6448  | . 6458  | . 6468  |
| 76.....                     | . 6384                                         | . 6394  | . 6404  | . 6414  | . 6424  | . 6433  | . 6443  | . 6453  | . 6463  | . 6473  |
| 77.....                     | . 6390                                         | . 6400  | . 6410  | . 6419  | . 6429  | . 6439  | . 6449  | . 6459  | . 6468  | . 6478  |
| 78.....                     | . 6395                                         | . 6405  | . 6415  | . 6425  | . 6435  | . 6444  | . 6454  | . 6464  | . 6474  | . 6484  |
| 79.....                     | . 6400                                         | . 6410  | . 6420  | . 6430  | . 6440  | . 6449  | . 6459  | . 6469  | . 6479  | . 6489  |
| 80.....                     | . 6406                                         | . 6416  | . 6426  | . 6435  | . 6445  | . 6455  | . 6465  | . 6475  | . 6484  | . 6494  |
| 81.....                     | . 6411                                         | . 6421  | . 6431  | . 6440  | . 6450  | . 6460  | . 6470  | . 6480  | . 6489  | . 6499  |
| 82.....                     | . 6416                                         | . 6426  | . 6436  | . 6445  | . 6455  | . 6465  | . 6475  | . 6485  | . 6494  | . 6504  |
| 83.....                     | . 6421                                         | . 6431  | . 6441  | . 6450  | . 6460  | . 6470  | . 6480  | . 6490  | . 6499  | . 6509  |
| 84.....                     | . 6426                                         | . 6436  | . 6446  | . 6456  | . 6465  | . 6475  | . 6485  | . 6495  | . 6505  | . 6514  |
| 85.....                     | . 6431                                         | . 6441  | . 6451  | . 6461  | . 6470  | . 6480  | . 6490  | . 6500  | . 6510  | . 6519  |
| 86.....                     | . 6437                                         | . 6447  | . 6457  | . 6466  | . 6476  | . 6486  | . 6495  | . 6505  | . 6515  | . 6525  |
| 87.....                     | . 6442                                         | . 6452  | . 6462  | . 6471  | . 6481  | . 6491  | . 6500  | . 6510  | . 6520  | . 6530  |
| 88.....                     | . 6447                                         | . 6457  | . 6467  | . 6476  | . 6486  | . 6496  | . 6505  | . 6515  | . 6525  | . 6535  |
| 89.....                     | . 6452                                         | . 6462  | . 6472  | . 6481  | . 6491  | . 6501  | . 6510  | . 6520  | . 6530  | . 6540  |
| 90.....                     | . 6457                                         | . 6467  | . 6477  | . 6486  | . 6496  | . 6506  | . 6516  | . 6525  | . 6535  | . 6545  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.640                                          | 0.641  | 0.642  | 0.643  | 0.644  | 0.645  | 0.646  | 0.647  | 0.648  | 0.649  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.6065                                         | 0.6076 | 0.6086 | 0.6097 | 0.6108 | 0.6118 | 0.6129 | 0.6140 | 0.6150 | 0.6161 |
| 1.....                      | .6070                                          | .6081  | .6092  | .6102  | .6113  | .6124  | .6135  | .6145  | .6156  | .6167  |
| 2.....                      | .6076                                          | .6087  | .6098  | .6108  | .6119  | .6130  | .6141  | .6151  | .6162  | .6173  |
| 3.....                      | .6082                                          | .6093  | .6104  | .6114  | .6125  | .6136  | .6147  | .6157  | .6168  | .6179  |
| 4.....                      | .6088                                          | .6099  | .6109  | .6120  | .6131  | .6141  | .6152  | .6163  | .6173  | .6184  |
| 5.....                      | .6094                                          | .6105  | .6115  | .6126  | .6137  | .6147  | .6158  | .6168  | .6179  | .6190  |
| 6.....                      | .6100                                          | .6110  | .6121  | .6131  | .6142  | .6152  | .6163  | .6173  | .6184  | .6195  |
| 7.....                      | .6106                                          | .6116  | .6127  | .6137  | .6148  | .6158  | .6169  | .6179  | .6190  | .6201  |
| 8.....                      | .6112                                          | .6122  | .6133  | .6143  | .6154  | .6164  | .6175  | .6185  | .6196  | .6207  |
| 9.....                      | .6118                                          | .6128  | .6139  | .6149  | .6160  | .6170  | .6181  | .6191  | .6202  | .6213  |
| 10.....                     | .6124                                          | .6134  | .6145  | .6155  | .6166  | .6176  | .6187  | .6197  | .6208  | .6219  |
| 11.....                     | .6130                                          | .6140  | .6151  | .6161  | .6172  | .6182  | .6193  | .6203  | .6214  | .6224  |
| 12.....                     | .6136                                          | .6146  | .6157  | .6167  | .6178  | .6188  | .6199  | .6209  | .6220  | .6230  |
| 13.....                     | .6142                                          | .6152  | .6163  | .6173  | .6184  | .6194  | .6205  | .6215  | .6226  | .6236  |
| 14.....                     | .6148                                          | .6158  | .6169  | .6179  | .6190  | .6200  | .6210  | .6221  | .6231  | .6242  |
| 15.....                     | .6153                                          | .6163  | .6174  | .6184  | .6195  | .6205  | .6216  | .6226  | .6237  | .6247  |
| 16.....                     | .6158                                          | .6169  | .6179  | .6190  | .6200  | .6211  | .6221  | .6232  | .6242  | .6253  |
| 17.....                     | .6164                                          | .6175  | .6185  | .6196  | .6206  | .6217  | .6227  | .6238  | .6248  | .6259  |
| 18.....                     | .6170                                          | .6180  | .6190  | .6201  | .6211  | .6222  | .6232  | .6243  | .6253  | .6264  |
| 19.....                     | .6176                                          | .6186  | .6196  | .6207  | .6217  | .6228  | .6238  | .6249  | .6259  | .6270  |
| 20.....                     | .6182                                          | .6192  | .6202  | .6213  | .6223  | .6233  | .6244  | .6254  | .6265  | .6275  |
| 21.....                     | .6187                                          | .6197  | .6208  | .6218  | .6229  | .6239  | .6250  | .6260  | .6271  | .6281  |
| 22.....                     | .6193                                          | .6203  | .6214  | .6224  | .6234  | .6244  | .6255  | .6265  | .6276  | .6286  |
| 23.....                     | .6198                                          | .6208  | .6219  | .6229  | .6240  | .6250  | .6261  | .6271  | .6282  | .6292  |
| 24.....                     | .6204                                          | .6214  | .6224  | .6235  | .6245  | .6255  | .6266  | .6277  | .6287  | .6298  |
| 25.....                     | .6209                                          | .6219  | .6230  | .6240  | .6251  | .6261  | .6272  | .6282  | .6293  | .6303  |
| 26.....                     | .6215                                          | .6225  | .6236  | .6246  | .6257  | .6267  | .6278  | .6288  | .6299  | .6309  |
| 27.....                     | .6220                                          | .6230  | .6241  | .6251  | .6262  | .6272  | .6283  | .6293  | .6304  | .6314  |
| 28.....                     | .6226                                          | .6236  | .6247  | .6257  | .6268  | .6278  | .6289  | .6299  | .6310  | .6320  |
| 29.....                     | .6232                                          | .6242  | .6252  | .6263  | .6273  | .6283  | .6294  | .6304  | .6315  | .6325  |
| 30.....                     | .6238                                          | .6248  | .6258  | .6269  | .6279  | .6289  | .6300  | .6310  | .6321  | .6331  |
| 31.....                     | .6244                                          | .6254  | .6264  | .6275  | .6285  | .6295  | .6305  | .6316  | .6326  | .6337  |
| 32.....                     | .6249                                          | .6259  | .6270  | .6280  | .6290  | .6300  | .6311  | .6321  | .6331  | .6342  |
| 33.....                     | .6254                                          | .6264  | .6275  | .6285  | .6296  | .6306  | .6316  | .6327  | .6337  | .6348  |
| 34.....                     | .6260                                          | .6270  | .6281  | .6291  | .6302  | .6312  | .6322  | .6333  | .6343  | .6353  |
| 35.....                     | .6265                                          | .6275  | .6286  | .6296  | .6307  | .6317  | .6327  | .6338  | .6348  | .6359  |
| 36.....                     | .6271                                          | .6281  | .6292  | .6302  | .6313  | .6323  | .6333  | .6344  | .6354  | .6364  |
| 37.....                     | .6276                                          | .6286  | .6297  | .6307  | .6318  | .6328  | .6338  | .6349  | .6359  | .6369  |
| 38.....                     | .6282                                          | .6292  | .6302  | .6313  | .6323  | .6333  | .6344  | .6354  | .6364  | .6375  |
| 39.....                     | .6288                                          | .6298  | .6308  | .6318  | .6329  | .6339  | .6349  | .6359  | .6369  | .6380  |
| 40.....                     | .6293                                          | .6303  | .6313  | .6324  | .6334  | .6344  | .6355  | .6365  | .6375  | .6385  |
| 41.....                     | .6299                                          | .6309  | .6319  | .6329  | .6340  | .6350  | .6360  | .6370  | .6381  | .6391  |
| 42.....                     | .6304                                          | .6314  | .6324  | .6335  | .6345  | .6355  | .6366  | .6376  | .6386  | .6396  |
| 43.....                     | .6309                                          | .6319  | .6329  | .6340  | .6350  | .6360  | .6371  | .6381  | .6391  | .6401  |
| 44.....                     | .6315                                          | .6325  | .6335  | .6346  | .6356  | .6366  | .6376  | .6387  | .6397  | .6407  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.640                                          | 0.641  | 0.642  | 0.643  | 0.644  | 0.645  | 0.646  | 0.647  | 0.648  | 0.649  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 45.....                     | 0.6320                                         | 0.6330 | 0.6340 | 0.6351 | 0.6361 | 0.6371 | 0.6382 | 0.6392 | 0.6402 | 0.6412 |
| 46.....                     | .6326                                          | .6336  | .6346  | .6356  | .6367  | .6377  | .6387  | .6397  | .6407  | .6418  |
| 47.....                     | .6331                                          | .6341  | .6351  | .6361  | .6372  | .6382  | .6392  | .6402  | .6412  | .6423  |
| 48.....                     | .6337                                          | .6347  | .6357  | .6367  | .6377  | .6388  | .6398  | .6408  | .6418  | .6428  |
| 49.....                     | .6342                                          | .6352  | .6362  | .6372  | .6382  | .6393  | .6403  | .6413  | .6423  | .6433  |
| 50.....                     | .6347                                          | .6357  | .6367  | .6377  | .6387  | .6398  | .6408  | .6418  | .6428  | .6438  |
| 51.....                     | .6352                                          | .6362  | .6372  | .6382  | .6392  | .6403  | .6413  | .6423  | .6433  | .6443  |
| 52.....                     | .6357                                          | .6367  | .6377  | .6387  | .6397  | .6408  | .6418  | .6428  | .6438  | .6448  |
| 53.....                     | .6363                                          | .6373  | .6383  | .6393  | .6403  | .6414  | .6424  | .6434  | .6444  | .6454  |
| 54.....                     | .6368                                          | .6378  | .6388  | .6398  | .6408  | .6419  | .6429  | .6439  | .6449  | .6459  |
| 55.....                     | .6374                                          | .6384  | .6394  | .6404  | .6414  | .6425  | .6435  | .6445  | .6455  | .6465  |
| 56.....                     | .6380                                          | .6390  | .6400  | .6410  | .6420  | .6430  | .6440  | .6450  | .6460  | .6470  |
| 57.....                     | .6385                                          | .6395  | .6405  | .6415  | .6425  | .6435  | .6445  | .6455  | .6465  | .6475  |
| 58.....                     | .6390                                          | .6400  | .6410  | .6420  | .6430  | .6440  | .6450  | .6460  | .6470  | .6480  |
| 59.....                     | .6395                                          | .6405  | .6415  | .6425  | .6435  | .6445  | .6455  | .6465  | .6475  | .6485  |
| 60.....                     | .6400                                          | .6410  | .6420  | .6430  | .6440  | .6450  | .6460  | .6470  | .6480  | .6490  |
| 61.....                     | .6405                                          | .6415  | .6425  | .6435  | .6445  | .6455  | .6465  | .6475  | .6485  | .6495  |
| 62.....                     | .6410                                          | .6420  | .6430  | .6440  | .6450  | .6460  | .6470  | .6480  | .6490  | .6500  |
| 63.....                     | .6416                                          | .6426  | .6436  | .6446  | .6456  | .6465  | .6475  | .6485  | .6495  | .6505  |
| 64.....                     | .6421                                          | .6431  | .6441  | .6451  | .6461  | .6471  | .6481  | .6491  | .6501  | .6511  |
| 65.....                     | .6427                                          | .6437  | .6447  | .6457  | .6467  | .6476  | .6486  | .6496  | .6506  | .6516  |
| 66.....                     | .6432                                          | .6442  | .6452  | .6462  | .6472  | .6481  | .6491  | .6501  | .6511  | .6521  |
| 67.....                     | .6437                                          | .6447  | .6457  | .6467  | .6477  | .6486  | .6496  | .6506  | .6516  | .6526  |
| 68.....                     | .6442                                          | .6452  | .6462  | .6472  | .6482  | .6491  | .6501  | .6511  | .6521  | .6531  |
| 69.....                     | .6447                                          | .6457  | .6467  | .6477  | .6487  | .6496  | .6506  | .6516  | .6526  | .6536  |
| 70.....                     | .6452                                          | .6462  | .6472  | .6482  | .6492  | .6501  | .6511  | .6521  | .6531  | .6541  |
| 71.....                     | .6458                                          | .6468  | .6478  | .6488  | .6497  | .6507  | .6517  | .6527  | .6537  | .6546  |
| 72.....                     | .6463                                          | .6473  | .6483  | .6493  | .6502  | .6512  | .6522  | .6532  | .6542  | .6551  |
| 73.....                     | .6468                                          | .6478  | .6488  | .6498  | .6507  | .6517  | .6527  | .6537  | .6547  | .6556  |
| 74.....                     | .6473                                          | .6483  | .6493  | .6503  | .6512  | .6522  | .6532  | .6542  | .6552  | .6561  |
| 75.....                     | .6478                                          | .6488  | .6498  | .6508  | .6517  | .6527  | .6537  | .6547  | .6557  | .6566  |
| 76.....                     | .6483                                          | .6493  | .6503  | .6513  | .6522  | .6532  | .6542  | .6552  | .6562  | .6571  |
| 77.....                     | .6488                                          | .6498  | .6508  | .6518  | .6527  | .6537  | .6547  | .6557  | .6567  | .6576  |
| 78.....                     | .6494                                          | .6504  | .6514  | .6524  | .6533  | .6543  | .6553  | .6563  | .6572  | .6582  |
| 79.....                     | .6499                                          | .6509  | .6519  | .6529  | .6538  | .6548  | .6558  | .6568  | .6577  | .6587  |
| 80.....                     | .6504                                          | .6514  | .6524  | .6534  | .6543  | .6553  | .6563  | .6573  | .6582  | .6592  |
| 81.....                     | .6509                                          | .6519  | .6529  | .6539  | .6548  | .6558  | .6568  | .6578  | .6587  | .6597  |
| 82.....                     | .6514                                          | .6524  | .6534  | .6544  | .6553  | .6563  | .6573  | .6583  | .6593  | .6602  |
| 83.....                     | .6519                                          | .6529  | .6539  | .6549  | .6558  | .6568  | .6578  | .6588  | .6598  | .6607  |
| 84.....                     | .6524                                          | .6534  | .6544  | .6554  | .6563  | .6573  | .6583  | .6593  | .6603  | .6612  |
| 85.....                     | .6529                                          | .6539  | .6549  | .6559  | .6568  | .6578  | .6588  | .6598  | .6608  | .6617  |
| 86.....                     | .6534                                          | .6544  | .6554  | .6564  | .6573  | .6583  | .6593  | .6603  | .6613  | .6622  |
| 87.....                     | .6539                                          | .6549  | .6559  | .6569  | .6578  | .6588  | .6598  | .6608  | .6617  | .6627  |
| 88.....                     | .6544                                          | .6554  | .6564  | .6574  | .6583  | .6593  | .6603  | .6613  | .6622  | .6632  |
| 89.....                     | .6549                                          | .6559  | .6569  | .6579  | .6588  | .6598  | .6608  | .6618  | .6627  | .6637  |
| 90.....                     | .6554                                          | .6564  | .6574  | .6584  | .6593  | .6603  | .6613  | .6623  | .6632  | .6642  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.650                                          | 0.651  | 0.652  | 0.653  | 0.654  | 0.655  | 0.656  | 0.657  | 0.658  | 0.659  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.6172                                         | 0.6183 | 0.6194 | 0.6204 | 0.6215 | 0.6226 | 0.6237 | 0.6247 | 0.6258 | 0.6269 |
| 1.....                      | .6178                                          | .6189  | .6200  | .6210  | .6221  | .6232  | .6242  | .6253  | .6264  | .6275  |
| 2.....                      | .6183                                          | .6194  | .6205  | .6215  | .6226  | .6237  | .6248  | .6258  | .6269  | .6280  |
| 3.....                      | .6189                                          | .6200  | .6211  | .6221  | .6232  | .6242  | .6253  | .6264  | .6274  | .6285  |
| 4.....                      | .6195                                          | .6206  | .6216  | .6227  | .6238  | .6248  | .6259  | .6269  | .6280  | .6291  |
| 5.....                      | .6201                                          | .6212  | .6222  | .6233  | .6244  | .6254  | .6265  | .6275  | .6286  | .6297  |
| 6.....                      | .6206                                          | .6217  | .6227  | .6238  | .6249  | .6260  | .6270  | .6281  | .6292  | .6303  |
| 7.....                      | .6212                                          | .6223  | .6233  | .6244  | .6255  | .6266  | .6276  | .6287  | .6298  | .6309  |
| 8.....                      | .6218                                          | .6229  | .6239  | .6249  | .6260  | .6271  | .6281  | .6292  | .6303  | .6314  |
| 9.....                      | .6224                                          | .6235  | .6245  | .6256  | .6266  | .6277  | .6287  | .6298  | .6309  | .6320  |
| 10.....                     | .6230                                          | .6241  | .6251  | .6262  | .6272  | .6283  | .6293  | .6304  | .6315  | .6326  |
| 11.....                     | .6235                                          | .6246  | .6256  | .6267  | .6278  | .6289  | .6299  | .6310  | .6321  | .6331  |
| 12.....                     | .6241                                          | .6251  | .6262  | .6272  | .6283  | .6294  | .6305  | .6315  | .6326  | .6336  |
| 13.....                     | .6247                                          | .6257  | .6268  | .6278  | .6289  | .6299  | .6310  | .6320  | .6331  | .6341  |
| 14.....                     | .6252                                          | .6262  | .6273  | .6283  | .6294  | .6304  | .6315  | .6325  | .6336  | .6346  |
| 15.....                     | .6258                                          | .6268  | .6279  | .6289  | .6300  | .6310  | .6321  | .6331  | .6342  | .6352  |
| 16.....                     | .6264                                          | .6274  | .6285  | .6295  | .6306  | .6316  | .6327  | .6337  | .6348  | .6358  |
| 17.....                     | .6270                                          | .6280  | .6291  | .6301  | .6312  | .6322  | .6333  | .6343  | .6354  | .6364  |
| 18.....                     | .6275                                          | .6285  | .6296  | .6306  | .6317  | .6327  | .6338  | .6348  | .6359  | .6369  |
| 19.....                     | .6281                                          | .6291  | .6302  | .6312  | .6323  | .6333  | .6343  | .6354  | .6364  | .6375  |
| 20.....                     | .6286                                          | .6296  | .6307  | .6317  | .6328  | .6338  | .6349  | .6359  | .6370  | .6380  |
| 21.....                     | .6292                                          | .6302  | .6313  | .6323  | .6334  | .6344  | .6355  | .6365  | .6376  | .6386  |
| 22.....                     | .6297                                          | .6307  | .6318  | .6328  | .6339  | .6349  | .6360  | .6370  | .6381  | .6391  |
| 23.....                     | .6303                                          | .6313  | .6324  | .6334  | .6344  | .6355  | .6365  | .6376  | .6386  | .6397  |
| 24.....                     | .6309                                          | .6319  | .6329  | .6340  | .6350  | .6361  | .6371  | .6382  | .6392  | .6403  |
| 25.....                     | .6314                                          | .6324  | .6334  | .6345  | .6355  | .6366  | .6376  | .6387  | .6397  | .6408  |
| 26.....                     | .6320                                          | .6330  | .6340  | .6351  | .6361  | .6372  | .6382  | .6393  | .6403  | .6414  |
| 27.....                     | .6325                                          | .6335  | .6345  | .6356  | .6366  | .6377  | .6387  | .6398  | .6408  | .6419  |
| 28.....                     | .6331                                          | .6341  | .6351  | .6362  | .6372  | .6382  | .6393  | .6403  | .6414  | .6424  |
| 29.....                     | .6336                                          | .6346  | .6356  | .6367  | .6377  | .6387  | .6398  | .6408  | .6419  | .6429  |
| 30.....                     | .6342                                          | .6352  | .6362  | .6372  | .6383  | .6393  | .6403  | .6413  | .6424  | .6434  |
| 31.....                     | .6347                                          | .6357  | .6367  | .6378  | .6388  | .6398  | .6409  | .6419  | .6429  | .6440  |
| 32.....                     | .6352                                          | .6362  | .6372  | .6383  | .6393  | .6403  | .6414  | .6424  | .6434  | .6445  |
| 33.....                     | .6358                                          | .6368  | .6378  | .6389  | .6399  | .6409  | .6420  | .6430  | .6440  | .6451  |
| 34.....                     | .6363                                          | .6373  | .6384  | .6394  | .6404  | .6415  | .6425  | .6435  | .6445  | .6456  |
| 35.....                     | .6369                                          | .6379  | .6390  | .6400  | .6410  | .6420  | .6431  | .6441  | .6451  | .6462  |
| 36.....                     | .6374                                          | .6384  | .6395  | .6405  | .6416  | .6426  | .6436  | .6446  | .6456  | .6467  |
| 37.....                     | .6379                                          | .6389  | .6400  | .6410  | .6421  | .6431  | .6441  | .6451  | .6461  | .6472  |
| 38.....                     | .6385                                          | .6395  | .6405  | .6415  | .6426  | .6436  | .6446  | .6456  | .6466  | .6477  |
| 39.....                     | .6390                                          | .6400  | .6410  | .6420  | .6431  | .6441  | .6451  | .6461  | .6471  | .6482  |
| 40.....                     | .6395                                          | .6405  | .6415  | .6426  | .6436  | .6446  | .6456  | .6466  | .6477  | .6487  |
| 41.....                     | .6401                                          | .6411  | .6421  | .6431  | .6441  | .6452  | .6462  | .6472  | .6482  | .6492  |
| 42.....                     | .6406                                          | .6416  | .6426  | .6437  | .6447  | .6457  | .6467  | .6477  | .6488  | .6498  |
| 43.....                     | .6411                                          | .6421  | .6431  | .6442  | .6452  | .6462  | .6472  | .6482  | .6493  | .6503  |
| 44.....                     | .6417                                          | .6427  | .6437  | .6447  | .6457  | .6468  | .6478  | .6488  | .6498  | .6508  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.650                                          | 0.651  | 0.652  | 0.653  | 0.654  | 0.655  | 0.656  | 0.657  | 0.658  | 0.659  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 45.....                     | 0.6422                                         | 0.6432 | 0.6442 | 0.6453 | 0.6463 | 0.6473 | 0.6483 | 0.6493 | 0.6504 | 0.6514 |
| 46.....                     | .6428                                          | .6438  | .6448  | .6458  | .6468  | .6479  | .6489  | .6499  | .6509  | .6519  |
| 47.....                     | .6433                                          | .6443  | .6453  | .6463  | .6473  | .6484  | .6494  | .6504  | .6514  | .6524  |
| 48.....                     | .6438                                          | .6448  | .6458  | .6468  | .6478  | .6489  | .6499  | .6509  | .6519  | .6529  |
| 49.....                     | .6443                                          | .6453  | .6463  | .6473  | .6483  | .6494  | .6504  | .6514  | .6524  | .6534  |
| 50.....                     | .6448                                          | .6458  | .6468  | .6478  | .6488  | .6499  | .6509  | .6519  | .6529  | .6539  |
| 51.....                     | .6453                                          | .6463  | .6473  | .6483  | .6493  | .6504  | .6514  | .6524  | .6534  | .6544  |
| 52.....                     | .6458                                          | .6468  | .6478  | .6488  | .6498  | .6509  | .6519  | .6529  | .6539  | .6549  |
| 53.....                     | .6464                                          | .6474  | .6484  | .6494  | .6504  | .6515  | .6525  | .6535  | .6545  | .6555  |
| 54.....                     | .6469                                          | .6479  | .6489  | .6499  | .6509  | .6520  | .6530  | .6540  | .6550  | .6560  |
| 55.....                     | .6475                                          | .6485  | .6495  | .6505  | .6515  | .6525  | .6535  | .6545  | .6555  | .6565  |
| 56.....                     | .6480                                          | .6490  | .6500  | .6510  | .6520  | .6530  | .6540  | .6550  | .6560  | .6570  |
| 57.....                     | .6485                                          | .6495  | .6505  | .6515  | .6525  | .6535  | .6545  | .6555  | .6565  | .6575  |
| 58.....                     | .6490                                          | .6500  | .6510  | .6520  | .6530  | .6540  | .6550  | .6560  | .6570  | .6580  |
| 59.....                     | .6495                                          | .6505  | .6515  | .6525  | .6535  | .6545  | .6555  | .6565  | .6575  | .6585  |
| 60.....                     | .6500                                          | .6510  | .6520  | .6530  | .6540  | .6550  | .6560  | .6570  | .6580  | .6590  |
| 61.....                     | .6505                                          | .6515  | .6525  | .6535  | .6545  | .6555  | .6565  | .6575  | .6585  | .6595  |
| 62.....                     | .6510                                          | .6520  | .6530  | .6540  | .6550  | .6560  | .6570  | .6580  | .6590  | .6600  |
| 63.....                     | .6515                                          | .6525  | .6535  | .6545  | .6555  | .6565  | .6575  | .6585  | .6595  | .6605  |
| 64.....                     | .6521                                          | .6531  | .6541  | .6551  | .6561  | .6570  | .6580  | .6590  | .6600  | .6610  |
| 65.....                     | .6526                                          | .6536  | .6546  | .6556  | .6566  | .6575  | .6585  | .6595  | .6605  | .6615  |
| 66.....                     | .6531                                          | .6541  | .6551  | .6561  | .6571  | .6580  | .6590  | .6600  | .6610  | .6620  |
| 67.....                     | .6536                                          | .6546  | .6556  | .6566  | .6576  | .6585  | .6595  | .6605  | .6615  | .6625  |
| 68.....                     | .6541                                          | .6551  | .6561  | .6571  | .6581  | .6590  | .6600  | .6610  | .6620  | .6630  |
| 69.....                     | .6546                                          | .6556  | .6566  | .6576  | .6586  | .6595  | .6605  | .6615  | .6625  | .6635  |
| 70.....                     | .6551                                          | .6561  | .6571  | .6581  | .6591  | .6600  | .6610  | .6620  | .6630  | .6640  |
| 71.....                     | .6556                                          | .6566  | .6576  | .6586  | .6596  | .6605  | .6615  | .6625  | .6635  | .6645  |
| 72.....                     | .6561                                          | .6571  | .6581  | .6591  | .6601  | .6610  | .6620  | .6630  | .6640  | .6650  |
| 73.....                     | .6566                                          | .6576  | .6586  | .6596  | .6606  | .6615  | .6625  | .6635  | .6645  | .6655  |
| 74.....                     | .6571                                          | .6581  | .6591  | .6601  | .6611  | .6620  | .6630  | .6640  | .6650  | .6660  |
| 75.....                     | .6576                                          | .6586  | .6596  | .6606  | .6616  | .6625  | .6635  | .6645  | .6655  | .6665  |
| 76.....                     | .6581                                          | .6591  | .6601  | .6611  | .6621  | .6630  | .6640  | .6650  | .6660  | .6670  |
| 77.....                     | .6586                                          | .6596  | .6606  | .6616  | .6626  | .6635  | .6645  | .6655  | .6665  | .6675  |
| 78.....                     | .6592                                          | .6602  | .6612  | .6622  | .6632  | .6641  | .6651  | .6661  | .6671  | .6681  |
| 79.....                     | .6597                                          | .6607  | .6617  | .6627  | .6637  | .6646  | .6656  | .6666  | .6676  | .6686  |
| 80.....                     | .6602                                          | .6612  | .6622  | .6632  | .6642  | .6651  | .6661  | .6671  | .6681  | .6691  |
| 81.....                     | .6607                                          | .6617  | .6627  | .6637  | .6647  | .6656  | .6666  | .6676  | .6686  | .6696  |
| 82.....                     | .6612                                          | .6622  | .6632  | .6642  | .6652  | .6661  | .6671  | .6681  | .6691  | .6701  |
| 83.....                     | .6617                                          | .6627  | .6637  | .6647  | .6657  | .6666  | .6676  | .6686  | .6696  | .6706  |
| 84.....                     | .6622                                          | .6632  | .6642  | .6652  | .6662  | .6671  | .6681  | .6691  | .6701  | .6711  |
| 85.....                     | .6627                                          | .6637  | .6647  | .6657  | .6667  | .6676  | .6686  | .6696  | .6706  | .6716  |
| 86.....                     | .6632                                          | .6642  | .6652  | .6662  | .6671  | .6681  | .6691  | .6701  | .6711  | .6720  |
| 87.....                     | .6637                                          | .6647  | .6657  | .6666  | .6676  | .6686  | .6696  | .6706  | .6715  | .6725  |
| 88.....                     | .6642                                          | .6652  | .6662  | .6671  | .6681  | .6691  | .6701  | .6711  | .6720  | .6730  |
| 89.....                     | .6647                                          | .6657  | .6667  | .6676  | .6686  | .6696  | .6706  | .6716  | .6725  | .6735  |
| 90.....                     | .6652                                          | .6662  | .6672  | .6681  | .6691  | .6701  | .6711  | .6721  | .6730  | .6740  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |         |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|---------|--------|--------|--------|--------|--------|--------|
|                             | 0.660                                          | 0.661  | 0.662  | 0.663   | 0.664  | 0.665  | 0.666  | 0.667  | 0.668  | 0.669  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |         |        |        |        |        |        |        |
| 0.....                      | 0.6280                                         | 0.6291 | 0.6302 | 0.6312. | 0.6323 | 0.6333 | 0.6344 | 0.6355 | 0.6365 | 0.6376 |
| 1.....                      | .6286                                          | .6297  | .6308  | .6318   | .6329  | .6339  | .6350  | .6361  | .6371  | .6382  |
| 2.....                      | .6291                                          | .6302  | .6313  | .6323   | .6334  | .6344  | .6355  | .6366  | .6377  | .6388  |
| 3.....                      | .6296                                          | .6307  | .6318  | .6328   | .6339  | .6350  | .6361  | .6371  | .6382  | .6393  |
| 4.....                      | .6302                                          | .6313  | .6324  | .6334   | .6345  | .6356  | .6367  | .6377  | .6388  | .6399  |
| 5.....                      | .6308                                          | .6319  | .6329  | .6340   | .6351  | .6361  | .6372  | .6382  | .6393  | .6404  |
| 6.....                      | .6313                                          | .6324  | .6335  | .6345   | .6356  | .6367  | .6377  | .6388  | .6399  | .6409  |
| 7.....                      | .6319                                          | .6330  | .6341  | .6351   | .6362  | .6372  | .6383  | .6393  | .6404  | .6414  |
| 8.....                      | .6324                                          | .6335  | .6346  | .6356   | .6367  | .6377  | .6388  | .6398  | .6409  | .6419  |
| 9.....                      | .6330                                          | .6341  | .6352  | .6362   | .6373  | .6383  | .6394  | .6404  | .6415  | .6425  |
| 10.....                     | .6336                                          | .6346  | .6357  | .6367   | .6378  | .6388  | .6399  | .6409  | .6420  | .6430  |
| 11.....                     | .6341                                          | .6352  | .6362  | .6373   | .6383  | .6394  | .6404  | .6414  | .6425  | .6436  |
| 12.....                     | .6347                                          | .6357  | .6368  | .6378   | .6389  | .6399  | .6410  | .6420  | .6431  | .6441  |
| 13.....                     | .6352                                          | .6362  | .6373  | .6383   | .6394  | .6405  | .6415  | .6426  | .6436  | .6447  |
| 14.....                     | .6357                                          | .6367  | .6378  | .6389   | .6400  | .6410  | .6421  | .6431  | .6442  | .6452  |
| 15.....                     | .6363                                          | .6373  | .6384  | .6394   | .6405  | .6415  | .6426  | .6436  | .6447  | .6457  |
| 16.....                     | .6369                                          | .6379  | .6389  | .6400   | .6410  | .6420  | .6431  | .6441  | .6452  | .6462  |
| 17.....                     | .6375                                          | .6385  | .6395  | .6406   | .6416  | .6426  | .6437  | .6447  | .6457  | .6468  |
| 18.....                     | .6380                                          | .6390  | .6400  | .6411   | .6421  | .6431  | .6442  | .6452  | .6462  | .6473  |
| 19.....                     | .6385                                          | .6395  | .6406  | .6416   | .6427  | .6437  | .6448  | .6458  | .6468  | .6479  |
| 20.....                     | .6391                                          | .6401  | .6411  | .6422   | .6432  | .6442  | .6453  | .6463  | .6473  | .6484  |
| 21.....                     | .6397                                          | .6407  | .6417  | .6427   | .6438  | .6448  | .6458  | .6468  | .6478  | .6489  |
| 22.....                     | .6402                                          | .6412  | .6422  | .6432   | .6443  | .6453  | .6463  | .6474  | .6484  | .6495  |
| 23.....                     | .6407                                          | .6417  | .6428  | .6438   | .6448  | .6459  | .6469  | .6480  | .6490  | .6501  |
| 24.....                     | .6413                                          | .6423  | .6433  | .6444   | .6454  | .6464  | .6475  | .6485  | .6495  | .6506  |
| 25.....                     | .6418                                          | .6428  | .6439  | .6449   | .6459  | .6470  | .6480  | .6491  | .6501  | .6512  |
| 26.....                     | .6424                                          | .6434  | .6444  | .6455   | .6465  | .6475  | .6486  | .6496  | .6506  | .6517  |
| 27.....                     | .6429                                          | .6439  | .6449  | .6460   | .6470  | .6480  | .6491  | .6501  | .6511  | .6522  |
| 28.....                     | .6434                                          | .6444  | .6454  | .6465   | .6475  | .6485  | .6496  | .6506  | .6516  | .6527  |
| 29.....                     | .6439                                          | .6449  | .6460  | .6470   | .6480  | .6491  | .6501  | .6512  | .6522  | .6533  |
| 30.....                     | .6445                                          | .6455  | .6465  | .6476   | .6486  | .6496  | .6506  | .6517  | .6527  | .6538  |
| 31.....                     | .6450                                          | .6460  | .6470  | .6481   | .6491  | .6501  | .6512  | .6522  | .6532  | .6543  |
| 32.....                     | .6455                                          | .6465  | .6475  | .6486   | .6496  | .6506  | .6517  | .6527  | .6537  | .6548  |
| 33.....                     | .6461                                          | .6471  | .6481  | .6492   | .6502  | .6512  | .6523  | .6533  | .6543  | .6554  |
| 34.....                     | .6466                                          | .6476  | .6486  | .6497   | .6507  | .6517  | .6528  | .6538  | .6548  | .6559  |
| 35.....                     | .6472                                          | .6482  | .6492  | .6502   | .6513  | .6523  | .6533  | .6543  | .6553  | .6564  |
| 36.....                     | .6477                                          | .6487  | .6497  | .6507   | .6518  | .6528  | .6538  | .6548  | .6558  | .6569  |
| 37.....                     | .6482                                          | .6492  | .6502  | .6512   | .6523  | .6533  | .6543  | .6553  | .6563  | .6574  |
| 38.....                     | .6487                                          | .6497  | .6507  | .6517   | .6528  | .6538  | .6548  | .6558  | .6568  | .6579  |
| 39.....                     | .6492                                          | .6502  | .6512  | .6522   | .6533  | .6543  | .6553  | .6563  | .6573  | .6584  |
| 40.....                     | .6497                                          | .6507  | .6517  | .6527   | .6538  | .6548  | .6558  | .6568  | .6578  | .6589  |
| 41.....                     | .6502                                          | .6512  | .6522  | .6532   | .6543  | .6553  | .6563  | .6573  | .6584  | .6594  |
| 42.....                     | .6508                                          | .6518  | .6528  | .6538   | .6549  | .6559  | .6569  | .6579  | .6589  | .6600  |
| 43.....                     | .6513                                          | .6523  | .6533  | .6543   | .6554  | .6564  | .6574  | .6584  | .6594  | .6605  |
| 44.....                     | .6518                                          | .6528  | .6538  | .6548   | .6559  | .6569  | .6579  | .6589  | .6599  | .6610  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.660                                          | 0.661  | 0.662  | 0.663  | 0.664  | 0.665  | 0.666  | 0.667  | 0.668  | 0.669  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 45.....                     | 0.6524                                         | 0.6534 | 0.6544 | 0.6554 | 0.6564 | 0.6575 | 0.6585 | 0.6595 | 0.6605 | 0.6615 |
| 46.....                     | .6529                                          | .6539  | .6549  | .6559  | .6569  | .6580  | .6590  | .6600  | .6610  | .6620  |
| 47.....                     | .6534                                          | .6544  | .6554  | .6564  | .6574  | .6585  | .6595  | .6605  | .6615  | .6625  |
| 48.....                     | .6539                                          | .6549  | .6559  | .6569  | .6579  | .6590  | .6600  | .6610  | .6620  | .6630  |
| 49.....                     | .6544                                          | .6554  | .6564  | .6574  | .6584  | .6595  | .6605  | .6615  | .6625  | .6635  |
| 50.....                     | .6549                                          | .6559  | .6569  | .6579  | .6589  | .6600  | .6610  | .6620  | .6630  | .6640  |
| 51.....                     | .6554                                          | .6564  | .6574  | .6584  | .6594  | .6605  | .6615  | .6625  | .6635  | .6645  |
| 52.....                     | .6559                                          | .6569  | .6579  | .6589  | .6599  | .6610  | .6620  | .6630  | .6640  | .6650  |
| 53.....                     | .6565                                          | .6575  | .6585  | .6595  | .6605  | .6615  | .6625  | .6635  | .6645  | .6655  |
| 54.....                     | .6570                                          | .6580  | .6590  | .6600  | .6610  | .6620  | .6630  | .6640  | .6650  | .6660  |
| 55.....                     | .6575                                          | .6585  | .6595  | .6605  | .6615  | .6625  | .6635  | .6645  | .6655  | .6665  |
| 56.....                     | .6580                                          | .6590  | .6600  | .6610  | .6620  | .6630  | .6640  | .6650  | .6660  | .6670  |
| 57.....                     | .6585                                          | .6595  | .6605  | .6615  | .6625  | .6635  | .6645  | .6655  | .6665  | .6675  |
| 58.....                     | .6590                                          | .6600  | .6610  | .6620  | .6630  | .6640  | .6650  | .6660  | .6670  | .6680  |
| 59.....                     | .6595                                          | .6605  | .6615  | .6625  | .6635  | .6645  | .6655  | .6665  | .6675  | .6685  |
| 60.....                     | .6600                                          | .6610  | .6620  | .6630  | .6640  | .6650  | .6660  | .6670  | .6680  | .6690  |
| 61.....                     | .6605                                          | .6615  | .6625  | .6635  | .6645  | .6655  | .6665  | .6675  | .6685  | .6695  |
| 62.....                     | .6610                                          | .6620  | .6630  | .6640  | .6650  | .6660  | .6670  | .6680  | .6690  | .6700  |
| 63.....                     | .6615                                          | .6625  | .6635  | .6645  | .6655  | .6665  | .6675  | .6685  | .6695  | .6705  |
| 64.....                     | .6620                                          | .6630  | .6640  | .6650  | .6660  | .6670  | .6680  | .6690  | .6700  | .6710  |
| 65.....                     | .6625                                          | .6635  | .6645  | .6655  | .6665  | .6675  | .6685  | .6695  | .6705  | .6715  |
| 66.....                     | .6630                                          | .6640  | .6650  | .6660  | .6670  | .6680  | .6690  | .6700  | .6710  | .6720  |
| 67.....                     | .6635                                          | .6645  | .6655  | .6665  | .6675  | .6685  | .6695  | .6705  | .6715  | .6725  |
| 68.....                     | .6640                                          | .6650  | .6660  | .6670  | .6680  | .6690  | .6700  | .6710  | .6720  | .6730  |
| 69.....                     | .6645                                          | .6655  | .6665  | .6675  | .6685  | .6695  | .6705  | .6715  | .6725  | .6735  |
| 70.....                     | .6650                                          | .6660  | .6670  | .6680  | .6690  | .6700  | .6710  | .6720  | .6730  | .6740  |
| 71.....                     | .6655                                          | .6665  | .6675  | .6685  | .6695  | .6705  | .6715  | .6725  | .6735  | .6745  |
| 72.....                     | .6660                                          | .6670  | .6680  | .6690  | .6700  | .6710  | .6720  | .6730  | .6740  | .6750  |
| 73.....                     | .6665                                          | .6675  | .6685  | .6695  | .6705  | .6715  | .6725  | .6735  | .6745  | .6755  |
| 74.....                     | .6670                                          | .6680  | .6690  | .6700  | .6710  | .6720  | .6730  | .6740  | .6750  | .6760  |
| 75.....                     | .6675                                          | .6685  | .6695  | .6705  | .6715  | .6725  | .6735  | .6745  | .6755  | .6764  |
| 76.....                     | .6680                                          | .6690  | .6700  | .6710  | .6720  | .6730  | .6740  | .6750  | .6760  | .6769  |
| 77.....                     | .6685                                          | .6695  | .6705  | .6715  | .6725  | .6735  | .6745  | .6755  | .6765  | .6774  |
| 78.....                     | .6691                                          | .6701  | .6711  | .6720  | .6730  | .6740  | .6750  | .6760  | .6770  | .6779  |
| 79.....                     | .6696                                          | .6706  | .6716  | .6725  | .6735  | .6745  | .6755  | .6765  | .6775  | .6784  |
| 80.....                     | .6701                                          | .6711  | .6721  | .6730  | .6740  | .6750  | .6760  | .6770  | .6780  | .6789  |
| 81.....                     | .6706                                          | .6716  | .6726  | .6735  | .6745  | .6755  | .6765  | .6775  | .6785  | .6794  |
| 82.....                     | .6711                                          | .6721  | .6731  | .6741  | .6750  | .6760  | .6770  | .6780  | .6790  | .6799  |
| 83.....                     | .6716                                          | .6726  | .6736  | .6746  | .6755  | .6765  | .6775  | .6785  | .6795  | .6804  |
| 84.....                     | .6721                                          | .6731  | .6741  | .6751  | .6760  | .6770  | .6780  | .6790  | .6800  | .6809  |
| 85.....                     | .6726                                          | .6736  | .6746  | .6756  | .6765  | .6775  | .6785  | .6795  | .6805  | .6814  |
| 86.....                     | .6730                                          | .6740  | .6750  | .6760  | .6769  | .6779  | .6789  | .6799  | .6809  | .6818  |
| 87.....                     | .6735                                          | .6745  | .6755  | .6765  | .6774  | .6784  | .6794  | .6804  | .6814  | .6823  |
| 88.....                     | .6740                                          | .6750  | .6760  | .6770  | .6779  | .6789  | .6799  | .6809  | .6819  | .6828  |
| 89.....                     | .6745                                          | .6755  | .6765  | .6774  | .6784  | .6794  | .6803  | .6813  | .6823  | .6832  |
| 90.....                     | .6750                                          | .6760  | .6770  | .6779  | .6789  | .6799  | .6808  | .6818  | .6828  | .6837  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.670                                          | 0.671  | 0.672  | 0.673  | 0.674  | 0.675  | 0.676  | 0.677  | 0.678  | 0.679  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.6387                                         | 0.6398 | 0.6408 | 0.6419 | 0.6429 | 0.6440 | 0.6451 | 0.6462 | 0.6472 | 0.6483 |
| 1.....                      | .6393                                          | .6404  | .6414  | .6425  | .6435  | .6446  | .6457  | .6468  | .6478  | .6489  |
| 2.....                      | .6398                                          | .6409  | .6420  | .6431  | .6441  | .6452  | .6463  | .6473  | .6484  | .6494  |
| 3.....                      | .6403                                          | .6414  | .6425  | .6436  | .6446  | .6457  | .6468  | .6478  | .6489  | .6499  |
| 4.....                      | .6409                                          | .6419  | .6430  | .6441  | .6452  | .6462  | .6473  | .6483  | .6494  | .6504  |
| 5.....                      | .6414                                          | .6425  | .6435  | .6446  | .6457  | .6467  | .6478  | .6488  | .6499  | .6509  |
| 6.....                      | .6420                                          | .6430  | .6441  | .6451  | .6462  | .6472  | .6483  | .6493  | .6504  | .6514  |
| 7.....                      | .6425                                          | .6435  | .6446  | .6456  | .6467  | .6477  | .6488  | .6498  | .6509  | .6519  |
| 8.....                      | .6430                                          | .6440  | .6451  | .6461  | .6472  | .6482  | .6493  | .6503  | .6514  | .6524  |
| 9.....                      | .6436                                          | .6446  | .6457  | .6467  | .6478  | .6488  | .6498  | .6509  | .6519  | .6530  |
| 10.....                     | .6441                                          | .6451  | .6462  | .6472  | .6483  | .6493  | .6504  | .6514  | .6525  | .6535  |
| 11.....                     | .6447                                          | .6457  | .6467  | .6477  | .6488  | .6498  | .6509  | .6519  | .6530  | .6540  |
| 12.....                     | .6452                                          | .6462  | .6473  | .6483  | .6494  | .6504  | .6515  | .6525  | .6536  | .6546  |
| 13.....                     | .6457                                          | .6467  | .6478  | .6489  | .6500  | .6510  | .6520  | .6531  | .6541  | .6552  |
| 14.....                     | .6462                                          | .6473  | .6484  | .6494  | .6505  | .6515  | .6525  | .6536  | .6546  | .6557  |
| 15.....                     | .6468                                          | .6478  | .6489  | .6499  | .6510  | .6520  | .6530  | .6541  | .6551  | .6562  |
| 16.....                     | .6474                                          | .6484  | .6495  | .6505  | .6516  | .6526  | .6536  | .6547  | .6557  | .6568  |
| 17.....                     | .6479                                          | .6489  | .6500  | .6510  | .6521  | .6531  | .6541  | .6552  | .6562  | .6573  |
| 18.....                     | .6484                                          | .6494  | .6505  | .6515  | .6526  | .6536  | .6546  | .6557  | .6567  | .6578  |
| 19.....                     | .6490                                          | .6500  | .6511  | .6521  | .6531  | .6542  | .6552  | .6562  | .6572  | .6583  |
| 20.....                     | .6496                                          | .6506  | .6517  | .6527  | .6537  | .6548  | .6558  | .6568  | .6578  | .6589  |
| 21.....                     | .6501                                          | .6511  | .6522  | .6532  | .6542  | .6553  | .6563  | .6573  | .6583  | .6594  |
| 22.....                     | .6506                                          | .6516  | .6527  | .6537  | .6547  | .6558  | .6568  | .6578  | .6588  | .6599  |
| 23.....                     | .6511                                          | .6521  | .6532  | .6542  | .6552  | .6563  | .6573  | .6583  | .6593  | .6604  |
| 24.....                     | .6516                                          | .6526  | .6537  | .6547  | .6557  | .6568  | .6578  | .6588  | .6598  | .6609  |
| 25.....                     | .6521                                          | .6531  | .6542  | .6552  | .6562  | .6573  | .6583  | .6593  | .6603  | .6614  |
| 26.....                     | .6527                                          | .6537  | .6547  | .6558  | .6568  | .6578  | .6588  | .6598  | .6609  | .6619  |
| 27.....                     | .6532                                          | .6542  | .6552  | .6563  | .6573  | .6583  | .6593  | .6603  | .6614  | .6624  |
| 28.....                     | .6537                                          | .6547  | .6557  | .6568  | .6578  | .6588  | .6598  | .6608  | .6619  | .6629  |
| 29.....                     | .6542                                          | .6552  | .6562  | .6573  | .6583  | .6593  | .6603  | .6613  | .6624  | .6634  |
| 30.....                     | .6547                                          | .6557  | .6567  | .6578  | .6588  | .6598  | .6608  | .6618  | .6629  | .6639  |
| 31.....                     | .6552                                          | .6562  | .6572  | .6583  | .6593  | .6603  | .6613  | .6623  | .6634  | .6644  |
| 32.....                     | .6558                                          | .6568  | .6578  | .6589  | .6599  | .6609  | .6619  | .6629  | .6640  | .6650  |
| 33.....                     | .6563                                          | .6573  | .6583  | .6594  | .6604  | .6614  | .6624  | .6634  | .6645  | .6655  |
| 34.....                     | .6568                                          | .6578  | .6588  | .6599  | .6609  | .6619  | .6629  | .6639  | .6650  | .6660  |
| 35.....                     | .6574                                          | .6584  | .6594  | .6605  | .6615  | .6625  | .6635  | .6645  | .6656  | .6666  |
| 36.....                     | .6579                                          | .6589  | .6599  | .6610  | .6620  | .6630  | .6640  | .6650  | .6661  | .6671  |
| 37.....                     | .6584                                          | .6594  | .6604  | .6615  | .6625  | .6635  | .6645  | .6655  | .6666  | .6676  |
| 38.....                     | .6589                                          | .6599  | .6609  | .6620  | .6630  | .6640  | .6650  | .6660  | .6671  | .6681  |
| 39.....                     | .6594                                          | .6604  | .6614  | .6625  | .6635  | .6645  | .6655  | .6665  | .6676  | .6686  |
| 40.....                     | .6599                                          | .6609  | .6619  | .6630  | .6640  | .6650  | .6660  | .6670  | .6681  | .6691  |
| 41.....                     | .6604                                          | .6614  | .6624  | .6635  | .6645  | .6655  | .6665  | .6675  | .6686  | .6696  |
| 42.....                     | .6610                                          | .6620  | .6630  | .6640  | .6650  | .6661  | .6671  | .6681  | .6691  | .6701  |
| 43.....                     | .6615                                          | .6625  | .6635  | .6645  | .6655  | .6666  | .6676  | .6686  | .6696  | .6706  |
| 44.....                     | .6620                                          | .6630  | .6640  | .6650  | .6660  | .6671  | .6681  | .6691  | .6701  | .6711  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.670                                          | 0.671  | 0.672  | 0.673  | 0.674  | 0.675  | 0.676  | 0.677  | 0.678  | 0.679  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 45.....                     | 0.6625                                         | 0.6635 | 0.6645 | 0.6655 | 0.6665 | 0.6676 | 0.6686 | 0.6696 | 0.6706 | 0.6716 |
| 46.....                     | .6630                                          | .6640  | .6650  | .6660  | .6670  | .6681  | .6691  | .6701  | .6711  | .6721  |
| 47.....                     | .6635                                          | .6645  | .6655  | .6665  | .6675  | .6686  | .6696  | .6706  | .6716  | .6726  |
| 48.....                     | .6640                                          | .6650  | .6660  | .6670  | .6680  | .6691  | .6701  | .6711  | .6721  | .6731  |
| 49.....                     | .6645                                          | .6655  | .6665  | .6675  | .6685  | .6696  | .6706  | .6716  | .6726  | .6736  |
| 50.....                     | .6650                                          | .6660  | .6670  | .6680  | .6690  | .6700  | .6710  | .6720  | .6730  | .6740  |
| 51.....                     | .6655                                          | .6665  | .6675  | .6685  | .6695  | .6705  | .6715  | .6725  | .6735  | .6745  |
| 52.....                     | .6660                                          | .6670  | .6680  | .6690  | .6700  | .6710  | .6720  | .6730  | .6740  | .6750  |
| 53.....                     | .6665                                          | .6675  | .6685  | .6695  | .6705  | .6715  | .6725  | .6735  | .6745  | .6755  |
| 54.....                     | .6670                                          | .6680  | .6690  | .6700  | .6710  | .6720  | .6730  | .6740  | .6750  | .6760  |
| 55.....                     | .6675                                          | .6685  | .6695  | .6705  | .6715  | .6725  | .6735  | .6745  | .6755  | .6765  |
| 56.....                     | .6680                                          | .6690  | .6700  | .6710  | .6720  | .6730  | .6740  | .6750  | .6760  | .6770  |
| 57.....                     | .6685                                          | .6695  | .6705  | .6715  | .6725  | .6735  | .6745  | .6755  | .6765  | .6775  |
| 58.....                     | .6690                                          | .6700  | .6710  | .6720  | .6730  | .6740  | .6750  | .6760  | .6770  | .6780  |
| 59.....                     | .6695                                          | .6705  | .6715  | .6725  | .6735  | .6745  | .6755  | .6765  | .6775  | .6785  |
| 60.....                     | .6700                                          | .6710  | .6720  | .6730  | .6740  | .6750  | .6760  | .6770  | .6780  | .6790  |
| 61.....                     | .6705                                          | .6715  | .6725  | .6735  | .6745  | .6755  | .6765  | .6775  | .6785  | .6795  |
| 62.....                     | .6710                                          | .6720  | .6730  | .6740  | .6750  | .6760  | .6770  | .6780  | .6790  | .6800  |
| 63.....                     | .6715                                          | .6725  | .6735  | .6745  | .6755  | .6765  | .6775  | .6785  | .6795  | .6805  |
| 64.....                     | .6720                                          | .6730  | .6740  | .6750  | .6760  | .6770  | .6780  | .6790  | .6800  | .6810  |
| 65.....                     | .6725                                          | .6735  | .6745  | .6755  | .6765  | .6775  | .6785  | .6795  | .6805  | .6815  |
| 66.....                     | .6730                                          | .6740  | .6750  | .6760  | .6770  | .6780  | .6790  | .6800  | .6810  | .6820  |
| 67.....                     | .6735                                          | .6745  | .6755  | .6765  | .6775  | .6785  | .6795  | .6805  | .6815  | .6825  |
| 68.....                     | .6740                                          | .6750  | .6760  | .6770  | .6780  | .6789  | .6799  | .6809  | .6819  | .6829  |
| 69.....                     | .6745                                          | .6755  | .6765  | .6775  | .6785  | .6794  | .6804  | .6814  | .6824  | .6834  |
| 70.....                     | .6750                                          | .6760  | .6770  | .6780  | .6790  | .6799  | .6809  | .6819  | .6829  | .6839  |
| 71.....                     | .6755                                          | .6765  | .6775  | .6785  | .6795  | .6804  | .6814  | .6824  | .6834  | .6844  |
| 72.....                     | .6760                                          | .6770  | .6780  | .6790  | .6800  | .6809  | .6819  | .6829  | .6839  | .6849  |
| 73.....                     | .6765                                          | .6775  | .6785  | .6795  | .6805  | .6814  | .6824  | .6834  | .6844  | .6854  |
| 74.....                     | .6770                                          | .6780  | .6790  | .6800  | .6810  | .6819  | .6829  | .6839  | .6849  | .6859  |
| 75.....                     | .6774                                          | .6784  | .6794  | .6804  | .6814  | .6823  | .6833  | .6843  | .6853  | .6863  |
| 76.....                     | .6779                                          | .6789  | .6799  | .6809  | .6819  | .6828  | .6838  | .6848  | .6858  | .6868  |
| 77.....                     | .6784                                          | .6794  | .6804  | .6813  | .6823  | .6833  | .6843  | .6853  | .6862  | .6872  |
| 78.....                     | .6789                                          | .6799  | .6809  | .6818  | .6828  | .6838  | .6848  | .6858  | .6867  | .6877  |
| 79.....                     | .6794                                          | .6804  | .6814  | .6823  | .6833  | .6843  | .6853  | .6863  | .6872  | .6882  |
| 80.....                     | .6799                                          | .6809  | .6819  | .6828  | .6838  | .6848  | .6858  | .6868  | .6877  | .6887  |
| 81.....                     | .6804                                          | .6814  | .6824  | .6833  | .6843  | .6853  | .6863  | .6873  | .6882  | .6892  |
| 82.....                     | .6809                                          | .6819  | .6829  | .6838  | .6848  | .6858  | .6868  | .6878  | .6887  | .6897  |
| 83.....                     | .6814                                          | .6824  | .6834  | .6843  | .6853  | .6863  | .6873  | .6883  | .6892  | .6902  |
| 84.....                     | .6819                                          | .6829  | .6839  | .6848  | .6858  | .6868  | .6878  | .6888  | .6897  | .6907  |
| 85.....                     | .6824                                          | .6834  | .6844  | .6853  | .6863  | .6873  | .6883  | .6893  | .6902  | .6912  |
| 86.....                     | .6828                                          | .6838  | .6848  | .6857  | .6867  | .6877  | .6887  | .6897  | .6906  | .6916  |
| 87.....                     | .6833                                          | .6843  | .6853  | .6862  | .6872  | .6882  | .6892  | .6902  | .6911  | .6921  |
| 88.....                     | .6838                                          | .6848  | .6858  | .6867  | .6877  | .6887  | .6897  | .6907  | .6916  | .6926  |
| 89.....                     | .6842                                          | .6852  | .6862  | .6871  | .6881  | .6891  | .6901  | .6911  | .6920  | .6930  |
| 90.....                     | .6847                                          | .6857  | .6867  | .6876  | .6886  | .6896  | .6906  | .6916  | .6925  | .6935  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.680                                          | 0.681  | 0.682  | 0.683  | 0.684  | 0.685  | 0.686  | 0.687  | 0.688  | 0.689  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.6493                                         | 0.6504 | 0.6515 | 0.6525 | 0.6536 | 0.6546 | 0.6557 | 0.6567 | 0.6578 | 0.6588 |
| 1.....                      | .6499                                          | .6509  | .6520  | .6530  | .6541  | .6551  | .6562  | .6572  | .6583  | .6593  |
| 2.....                      | .6504                                          | .6514  | .6525  | .6535  | .6546  | .6556  | .6567  | .6577  | .6588  | .6598  |
| 3.....                      | .6509                                          | .6519  | .6530  | .6540  | .6551  | .6561  | .6572  | .6582  | .6593  | .6603  |
| 4.....                      | .6515                                          | .6525  | .6536  | .6546  | .6557  | .6567  | .6578  | .6588  | .6599  | .6609  |
| 5.....                      | .6520                                          | .6530  | .6541  | .6551  | .6562  | .6572  | .6583  | .6593  | .6604  | .6614  |
| 6.....                      | .6525                                          | .6535  | .6546  | .6556  | .6567  | .6577  | .6588  | .6598  | .6609  | .6619  |
| 7.....                      | .6530                                          | .6540  | .6551  | .6561  | .6572  | .6582  | .6593  | .6603  | .6614  | .6624  |
| 8.....                      | .6535                                          | .6545  | .6556  | .6566  | .6577  | .6587  | .6598  | .6608  | .6619  | .6629  |
| 9.....                      | .6541                                          | .6551  | .6562  | .6572  | .6583  | .6593  | .6603  | .6614  | .6624  | .6634  |
| 10.....                     | .6546                                          | .6556  | .6567  | .6577  | .6588  | .6598  | .6608  | .6619  | .6629  | .6640  |
| 11.....                     | .6551                                          | .6561  | .6572  | .6582  | .6593  | .6603  | .6613  | .6624  | .6634  | .6645  |
| 12.....                     | .6557                                          | .6567  | .6578  | .6588  | .6599  | .6609  | .6619  | .6630  | .6640  | .6651  |
| 13.....                     | .6562                                          | .6572  | .6583  | .6593  | .6604  | .6614  | .6624  | .6635  | .6645  | .6656  |
| 14.....                     | .6567                                          | .6577  | .6588  | .6598  | .6609  | .6619  | .6629  | .6640  | .6650  | .6661  |
| 15.....                     | .6572                                          | .6582  | .6593  | .6603  | .6614  | .6624  | .6634  | .6645  | .6655  | .6666  |
| 16.....                     | .6578                                          | .6588  | .6599  | .6609  | .6619  | .6630  | .6640  | .6650  | .6660  | .6671  |
| 17.....                     | .6583                                          | .6593  | .6604  | .6614  | .6624  | .6635  | .6645  | .6655  | .6665  | .6676  |
| 18.....                     | .6588                                          | .6598  | .6609  | .6619  | .6629  | .6640  | .6650  | .6660  | .6670  | .6681  |
| 19.....                     | .6593                                          | .6603  | .6614  | .6624  | .6634  | .6645  | .6655  | .6665  | .6675  | .6686  |
| 20.....                     | .6599                                          | .6609  | .6620  | .6630  | .6640  | .6651  | .6661  | .6671  | .6681  | .6692  |
| 21.....                     | .6604                                          | .6614  | .6625  | .6635  | .6645  | .6656  | .6666  | .6676  | .6686  | .6697  |
| 22.....                     | .6609                                          | .6619  | .6630  | .6640  | .6650  | .6661  | .6671  | .6681  | .6691  | .6702  |
| 23.....                     | .6614                                          | .6624  | .6635  | .6645  | .6655  | .6666  | .6676  | .6686  | .6696  | .6707  |
| 24.....                     | .6619                                          | .6629  | .6640  | .6650  | .6660  | .6671  | .6681  | .6691  | .6701  | .6712  |
| 25.....                     | .6624                                          | .6634  | .6645  | .6655  | .6665  | .6676  | .6686  | .6696  | .6706  | .6717  |
| 26.....                     | .6629                                          | .6639  | .6650  | .6660  | .6670  | .6681  | .6691  | .6701  | .6711  | .6722  |
| 27.....                     | .6634                                          | .6644  | .6655  | .6665  | .6675  | .6686  | .6696  | .6706  | .6716  | .6727  |
| 28.....                     | .6639                                          | .6649  | .6660  | .6670  | .6680  | .6691  | .6701  | .6711  | .6721  | .6732  |
| 29.....                     | .6644                                          | .6654  | .6665  | .6675  | .6685  | .6696  | .6706  | .6716  | .6726  | .6737  |
| 30.....                     | .6649                                          | .6659  | .6670  | .6680  | .6690  | .6701  | .6711  | .6721  | .6731  | .6742  |
| 31.....                     | .6654                                          | .6664  | .6675  | .6685  | .6695  | .6706  | .6716  | .6726  | .6736  | .6747  |
| 32.....                     | .6660                                          | .6670  | .6680  | .6691  | .6701  | .6711  | .6721  | .6731  | .6742  | .6752  |
| 33.....                     | .6665                                          | .6675  | .6685  | .6696  | .6706  | .6716  | .6726  | .6736  | .6747  | .6757  |
| 34.....                     | .6670                                          | .6680  | .6690  | .6701  | .6711  | .6721  | .6731  | .6741  | .6752  | .6762  |
| 35.....                     | .6676                                          | .6686  | .6696  | .6707  | .6717  | .6727  | .6737  | .6747  | .6758  | .6768  |
| 36.....                     | .6681                                          | .6691  | .6701  | .6712  | .6722  | .6732  | .6742  | .6752  | .6763  | .6773  |
| 37.....                     | .6686                                          | .6696  | .6706  | .6717  | .6727  | .6737  | .6747  | .6757  | .6768  | .6778  |
| 38.....                     | .6691                                          | .6701  | .6711  | .6722  | .6732  | .6742  | .6752  | .6762  | .6773  | .6783  |
| 39.....                     | .6696                                          | .6706  | .6716  | .6727  | .6737  | .6747  | .6757  | .6767  | .6778  | .6788  |
| 40.....                     | .6701                                          | .6711  | .6721  | .6731  | .6741  | .6752  | .6762  | .6772  | .6782  | .6792  |
| 41.....                     | .6706                                          | .6716  | .6726  | .6736  | .6746  | .6757  | .6767  | .6777  | .6787  | .6797  |
| 42.....                     | .6711                                          | .6721  | .6731  | .6741  | .6751  | .6762  | .6772  | .6782  | .6792  | .6802  |
| 43.....                     | .6716                                          | .6726  | .6736  | .6746  | .6756  | .6767  | .6777  | .6787  | .6797  | .6807  |
| 44.....                     | .6721                                          | .6731  | .6741  | .6751  | .6761  | .6772  | .6782  | .6792  | .6802  | .6812  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.680                                          | 0.681  | 0.682  | 0.683  | 0.684  | 0.685  | 0.686  | 0.687  | 0.688  | 0.689  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 45.....                     | 0.6726                                         | 0.6736 | 0.6746 | 0.6756 | 0.6766 | 0.6777 | 0.6787 | 0.6797 | 0.6807 | 0.6817 |
| 46.....                     | .6731                                          | .6741  | .6751  | .6761  | .6771  | .6782  | .6792  | .6802  | .6812  | .6822  |
| 47.....                     | .6736                                          | .6746  | .6756  | .6766  | .6776  | .6787  | .6797  | .6807  | .6817  | .6827  |
| 48.....                     | .6741                                          | .6751  | .6761  | .6771  | .6781  | .6792  | .6802  | .6812  | .6822  | .6832  |
| 49.....                     | .6746                                          | .6756  | .6766  | .6776  | .6786  | .6797  | .6807  | .6817  | .6827  | .6837  |
| 50.....                     | .6750                                          | .6760  | .6770  | .6780  | .6790  | .6801  | .6811  | .6821  | .6831  | .6841  |
| 51.....                     | .6755                                          | .6765  | .6775  | .6785  | .6795  | .6806  | .6816  | .6826  | .6836  | .6846  |
| 52.....                     | .6760                                          | .6770  | .6780  | .6790  | .6800  | .6811  | .6821  | .6831  | .6841  | .6851  |
| 53.....                     | .6765                                          | .6775  | .6785  | .6795  | .6805  | .6816  | .6826  | .6836  | .6846  | .6856  |
| 54.....                     | .6770                                          | .6780  | .6790  | .6800  | .6810  | .6821  | .6831  | .6841  | .6851  | .6861  |
| 55.....                     | .6775                                          | .6785  | .6795  | .6805  | .6815  | .6826  | .6836  | .6846  | .6856  | .6866  |
| 56.....                     | .6780                                          | .6790  | .6800  | .6810  | .6820  | .6831  | .6841  | .6851  | .6861  | .6871  |
| 57.....                     | .6785                                          | .6795  | .6805  | .6815  | .6825  | .6836  | .6846  | .6856  | .6866  | .6876  |
| 58.....                     | .6790                                          | .6800  | .6810  | .6820  | .6830  | .6840  | .6850  | .6860  | .6870  | .6880  |
| 59.....                     | .6795                                          | .6805  | .6815  | .6825  | .6835  | .6845  | .6855  | .6865  | .6875  | .6885  |
| 60.....                     | .6800                                          | .6810  | .6820  | .6830  | .6840  | .6850  | .6860  | .6870  | .6880  | .6890  |
| 61.....                     | .6805                                          | .6815  | .6825  | .6835  | .6845  | .6855  | .6865  | .6875  | .6885  | .6895  |
| 62.....                     | .6810                                          | .6820  | .6830  | .6840  | .6850  | .6860  | .6870  | .6880  | .6890  | .6900  |
| 63.....                     | .6815                                          | .6825  | .6835  | .6845  | .6855  | .6865  | .6875  | .6885  | .6895  | .6905  |
| 64.....                     | .6820                                          | .6830  | .6840  | .6850  | .6860  | .6870  | .6880  | .6890  | .6900  | .6910  |
| 65.....                     | .6825                                          | .6835  | .6845  | .6855  | .6865  | .6875  | .6885  | .6895  | .6905  | .6915  |
| 66.....                     | .6830                                          | .6840  | .6850  | .6860  | .6870  | .6879  | .6889  | .6899  | .6909  | .6919  |
| 67.....                     | .6835                                          | .6845  | .6855  | .6865  | .6875  | .6884  | .6894  | .6904  | .6914  | .6924  |
| 68.....                     | .6839                                          | .6849  | .6859  | .6869  | .6879  | .6888  | .6898  | .6908  | .6918  | .6928  |
| 69.....                     | .6844                                          | .6854  | .6864  | .6874  | .6884  | .6893  | .6903  | .6913  | .6923  | .6933  |
| 70.....                     | .6849                                          | .6859  | .6869  | .6879  | .6889  | .6898  | .6908  | .6918  | .6928  | .6938  |
| 71.....                     | .6854                                          | .6864  | .6874  | .6884  | .6894  | .6903  | .6913  | .6923  | .6933  | .6943  |
| 72.....                     | .6859                                          | .6869  | .6879  | .6889  | .6899  | .6908  | .6918  | .6928  | .6938  | .6948  |
| 73.....                     | .6864                                          | .6874  | .6884  | .6893  | .6903  | .6913  | .6923  | .6933  | .6942  | .6952  |
| 74.....                     | .6869                                          | .6879  | .6889  | .6898  | .6908  | .6918  | .6928  | .6938  | .6947  | .6957  |
| 75.....                     | .6873                                          | .6883  | .6893  | .6903  | .6913  | .6922  | .6932  | .6942  | .6952  | .6962  |
| 76.....                     | .6878                                          | .6888  | .6898  | .6908  | .6918  | .6927  | .6937  | .6947  | .6957  | .6967  |
| 77.....                     | .6882                                          | .6892  | .6902  | .6912  | .6922  | .6931  | .6941  | .6951  | .6961  | .6971  |
| 78.....                     | .6887                                          | .6897  | .6907  | .6917  | .6927  | .6936  | .6946  | .6956  | .6966  | .6976  |
| 79.....                     | .6892                                          | .6902  | .6912  | .6922  | .6932  | .6941  | .6951  | .6961  | .6971  | .6981  |
| 80.....                     | .6897                                          | .6907  | .6917  | .6927  | .6937  | .6946  | .6956  | .6966  | .6976  | .6986  |
| 81.....                     | .6902                                          | .6912  | .6922  | .6932  | .6942  | .6951  | .6961  | .6971  | .6981  | .6991  |
| 82.....                     | .6907                                          | .6917  | .6927  | .6936  | .6946  | .6956  | .6966  | .6976  | .6985  | .6995  |
| 83.....                     | .6912                                          | .6922  | .6932  | .6941  | .6951  | .6961  | .6971  | .6981  | .6990  | .7000  |
| 84.....                     | .6917                                          | .6927  | .6937  | .6946  | .6956  | .6966  | .6976  | .6986  | .6995  | .7005  |
| 85.....                     | .6922                                          | .6932  | .6942  | .6951  | .6961  | .6971  | .6981  | .6991  | .7000  | .7010  |
| 86.....                     | .6926                                          | .6936  | .6946  | .6955  | .6965  | .6975  | .6985  | .6995  | .7004  | .7014  |
| 87.....                     | .6931                                          | .6941  | .6951  | .6960  | .6970  | .6980  | .6990  | .7000  | .7009  | .7019  |
| 88.....                     | .6936                                          | .6946  | .6956  | .6965  | .6975  | .6985  | .6995  | .7005  | .7014  | .7024  |
| 89.....                     | .6940                                          | .6950  | .6960  | .6969  | .6979  | .6989  | .6999  | .7009  | .7018  | .7028  |
| 90.....                     | .6945                                          | .6955  | .6965  | .6974  | .6984  | .6994  | .7004  | .7014  | .7023  | .7033  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.690                                          | 0.691  | 0.692  | 0.693  | 0.694  | 0.695  | 0.696  | 0.697  | 0.698  | 0.699  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.6599                                         | 0.6609 | 0.6620 | 0.6630 | 0.6641 | 0.6651 | 0.6662 | 0.6672 | 0.6683 | 0.6693 |
| 1.....                      | .6604                                          | .6614  | .6625  | .6635  | .6646  | .6656  | .6667  | .6677  | .6688  | .6698  |
| 2.....                      | .6609                                          | .6619  | .6630  | .6640  | .6651  | .6661  | .6672  | .6682  | .6693  | .6703  |
| 3.....                      | .6614                                          | .6624  | .6635  | .6645  | .6656  | .6666  | .6677  | .6687  | .6698  | .6708  |
| 4.....                      | .6620                                          | .6630  | .6641  | .6651  | .6662  | .6672  | .6682  | .6693  | .6703  | .6714  |
| 5.....                      | .6625                                          | .6635  | .6646  | .6656  | .6667  | .6677  | .6687  | .6698  | .6708  | .6719  |
| 6.....                      | .6630                                          | .6640  | .6651  | .6661  | .6672  | .6682  | .6692  | .6703  | .6713  | .6724  |
| 7.....                      | .6635                                          | .6645  | .6656  | .6666  | .6677  | .6687  | .6698  | .6708  | .6719  | .6729  |
| 8.....                      | .6640                                          | .6650  | .6661  | .6671  | .6682  | .6692  | .6702  | .6713  | .6723  | .6734  |
| 9.....                      | .6645                                          | .6655  | .6666  | .6676  | .6687  | .6697  | .6707  | .6718  | .6728  | .6739  |
| 10.....                     | .6650                                          | .6660  | .6671  | .6681  | .6692  | .6702  | .6712  | .6723  | .6733  | .6744  |
| 11.....                     | .6655                                          | .6665  | .6676  | .6686  | .6697  | .6707  | .6717  | .6728  | .6738  | .6749  |
| 12.....                     | .6661                                          | .6671  | .6682  | .6692  | .6702  | .6712  | .6723  | .6733  | .6743  | .6754  |
| 13.....                     | .6666                                          | .6676  | .6687  | .6697  | .6707  | .6717  | .6728  | .6738  | .6748  | .6759  |
| 14.....                     | .6671                                          | .6681  | .6692  | .6702  | .6712  | .6723  | .6733  | .6743  | .6753  | .6764  |
| 15.....                     | .6676                                          | .6686  | .6697  | .6707  | .6717  | .6728  | .6738  | .6748  | .6758  | .6769  |
| 16.....                     | .6681                                          | .6691  | .6702  | .6712  | .6722  | .6733  | .6743  | .6753  | .6763  | .6774  |
| 17.....                     | .6686                                          | .6696  | .6707  | .6717  | .6727  | .6738  | .6748  | .6758  | .6768  | .6779  |
| 18.....                     | .6691                                          | .6701  | .6712  | .6722  | .6732  | .6743  | .6753  | .6763  | .6773  | .6784  |
| 19.....                     | .6696                                          | .6706  | .6717  | .6727  | .6737  | .6748  | .6758  | .6768  | .6778  | .6789  |
| 20.....                     | .6702                                          | .6712  | .6722  | .6733  | .6743  | .6753  | .6763  | .6773  | .6784  | .6794  |
| 21.....                     | .6707                                          | .6717  | .6727  | .6738  | .6748  | .6758  | .6768  | .6778  | .6789  | .6799  |
| 22.....                     | .6712                                          | .6722  | .6732  | .6743  | .6753  | .6763  | .6773  | .6783  | .6794  | .6804  |
| 23.....                     | .6717                                          | .6727  | .6737  | .6748  | .6758  | .6768  | .6778  | .6788  | .6799  | .6809  |
| 24.....                     | .6722                                          | .6732  | .6742  | .6753  | .6763  | .6773  | .6783  | .6793  | .6804  | .6814  |
| 25.....                     | .6727                                          | .6737  | .6747  | .6758  | .6768  | .6778  | .6788  | .6798  | .6809  | .6819  |
| 26.....                     | .6732                                          | .6742  | .6752  | .6763  | .6773  | .6783  | .6793  | .6803  | .6814  | .6824  |
| 27.....                     | .6737                                          | .6747  | .6757  | .6768  | .6778  | .6788  | .6798  | .6808  | .6819  | .6829  |
| 28.....                     | .6742                                          | .6752  | .6762  | .6773  | .6783  | .6793  | .6803  | .6813  | .6824  | .6834  |
| 29.....                     | .6747                                          | .6757  | .6767  | .6778  | .6788  | .6798  | .6808  | .6818  | .6829  | .6839  |
| 30.....                     | .6752                                          | .6762  | .6772  | .6783  | .6793  | .6803  | .6813  | .6823  | .6834  | .6844  |
| 31.....                     | .6757                                          | .6767  | .6777  | .6788  | .6798  | .6808  | .6818  | .6828  | .6839  | .6849  |
| 32.....                     | .6762                                          | .6772  | .6782  | .6793  | .6803  | .6813  | .6823  | .6833  | .6844  | .6854  |
| 33.....                     | .6767                                          | .6777  | .6787  | .6798  | .6808  | .6818  | .6828  | .6838  | .6849  | .6859  |
| 34.....                     | .6772                                          | .6782  | .6792  | .6803  | .6813  | .6823  | .6833  | .6843  | .6854  | .6864  |
| 35.....                     | .6778                                          | .6788  | .6798  | .6808  | .6818  | .6829  | .6839  | .6849  | .6859  | .6869  |
| 36.....                     | .6783                                          | .6793  | .6803  | .6813  | .6823  | .6834  | .6844  | .6854  | .6864  | .6874  |
| 37.....                     | .6788                                          | .6798  | .6808  | .6818  | .6828  | .6839  | .6849  | .6859  | .6869  | .6879  |
| 38.....                     | .6793                                          | .6803  | .6813  | .6823  | .6833  | .6844  | .6854  | .6864  | .6874  | .6884  |
| 39.....                     | .6798                                          | .6808  | .6818  | .6828  | .6838  | .6849  | .6859  | .6869  | .6879  | .6889  |
| 40.....                     | .6802                                          | .6812  | .6822  | .6832  | .6842  | .6853  | .6863  | .6873  | .6883  | .6893  |
| 41.....                     | .6807                                          | .6817  | .6827  | .6837  | .6847  | .6858  | .6868  | .6878  | .6888  | .6898  |
| 42.....                     | .6812                                          | .6822  | .6832  | .6842  | .6852  | .6863  | .6873  | .6883  | .6893  | .6903  |
| 43.....                     | .6817                                          | .6827  | .6837  | .6847  | .6857  | .6868  | .6878  | .6888  | .6898  | .6908  |
| 44.....                     | .6822                                          | .6832  | .6842  | .6852  | .6862  | .6873  | .6883  | .6893  | .6903  | .6913  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.690                                          | 0.691  | 0.692  | 0.693  | 0.694  | 0.695  | 0.696  | 0.697  | 0.698  | 0.699  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 45.....                     | 0.6827                                         | 0.6837 | 0.6847 | 0.6857 | 0.6867 | 0.6878 | 0.6888 | 0.6898 | 0.6908 | 0.6918 |
| 46.....                     | .6832                                          | .6842  | .6852  | .6862  | .6872  | .6883  | .6893  | .6903  | .6913  | .6923  |
| 47.....                     | .6837                                          | .6847  | .6857  | .6867  | .6877  | .6888  | .6898  | .6908  | .6918  | .6928  |
| 48.....                     | .6842                                          | .6852  | .6862  | .6872  | .6882  | .6893  | .6903  | .6913  | .6923  | .6933  |
| 49.....                     | .6847                                          | .6857  | .6867  | .6877  | .6887  | .6898  | .6908  | .6918  | .6928  | .6938  |
| 50.....                     | .6851                                          | .6861  | .6871  | .6881  | .6891  | .6902  | .6912  | .6922  | .6932  | .6942  |
| 51.....                     | .6856                                          | .6866  | .6876  | .6886  | .6896  | .6907  | .6917  | .6927  | .6937  | .6947  |
| 52.....                     | .6861                                          | .6871  | .6881  | .6891  | .6901  | .6912  | .6922  | .6932  | .6942  | .6952  |
| 53.....                     | .6866                                          | .6876  | .6886  | .6896  | .6906  | .6916  | .6926  | .6936  | .6946  | .6956  |
| 54.....                     | .6871                                          | .6881  | .6891  | .6901  | .6911  | .6921  | .6931  | .6941  | .6951  | .6961  |
| 55.....                     | .6876                                          | .6886  | .6896  | .6906  | .6916  | .6926  | .6936  | .6946  | .6956  | .6966  |
| 56.....                     | .6881                                          | .6891  | .6901  | .6911  | .6921  | .6931  | .6941  | .6951  | .6961  | .6971  |
| 57.....                     | .6886                                          | .6896  | .6906  | .6916  | .6926  | .6936  | .6946  | .6956  | .6966  | .6976  |
| 58.....                     | .6890                                          | .6900  | .6910  | .6920  | .6930  | .6940  | .6950  | .6960  | .6970  | .6980  |
| 59.....                     | .6895                                          | .6905  | .6915  | .6925  | .6935  | .6945  | .6955  | .6965  | .6975  | .6985  |
| 60.....                     | .6900                                          | .6910  | .6920  | .6930  | .6940  | .6950  | .6960  | .6970  | .6980  | .6990  |
| 61.....                     | .6905                                          | .6915  | .6925  | .6935  | .6945  | .6955  | .6965  | .6975  | .6985  | .6995  |
| 62.....                     | .6910                                          | .6920  | .6930  | .6940  | .6950  | .6959  | .6969  | .6979  | .6989  | .6999  |
| 63.....                     | .6915                                          | .6925  | .6935  | .6945  | .6955  | .6964  | .6974  | .6984  | .6994  | .7004  |
| 64.....                     | .6920                                          | .6930  | .6940  | .6950  | .6960  | .6969  | .6979  | .6989  | .6999  | .7009  |
| 65.....                     | .6925                                          | .6935  | .6945  | .6955  | .6965  | .6974  | .6984  | .6994  | .7004  | .7014  |
| 66.....                     | .6929                                          | .6939  | .6949  | .6959  | .6969  | .6978  | .6988  | .6998  | .7008  | .7018  |
| 67.....                     | .6934                                          | .6944  | .6954  | .6964  | .6974  | .6983  | .6993  | .7003  | .7013  | .7023  |
| 68.....                     | .6938                                          | .6948  | .6958  | .6968  | .6978  | .6988  | .6998  | .7008  | .7018  | .7028  |
| 69.....                     | .6943                                          | .6953  | .6963  | .6973  | .6983  | .6993  | .7003  | .7013  | .7023  | .7033  |
| 70.....                     | .6948                                          | .6958  | .6968  | .6978  | .6988  | .6998  | .7008  | .7018  | .7028  | .7038  |
| 71.....                     | .6953                                          | .6963  | .6973  | .6983  | .6993  | .7002  | .7012  | .7022  | .7032  | .7042  |
| 72.....                     | .6958                                          | .6968  | .6978  | .6988  | .6998  | .7007  | .7017  | .7027  | .7037  | .7047  |
| 73.....                     | .6962                                          | .6972  | .6982  | .6992  | .7002  | .7011  | .7021  | .7031  | .7041  | .7051  |
| 74.....                     | .6967                                          | .6977  | .6987  | .6997  | .7007  | .7016  | .7026  | .7036  | .7046  | .7056  |
| 75.....                     | .6972                                          | .6982  | .6992  | .7002  | .7012  | .7021  | .7031  | .7041  | .7051  | .7061  |
| 76.....                     | .6977                                          | .6987  | .6997  | .7006  | .7016  | .7026  | .7036  | .7046  | .7055  | .7065  |
| 77.....                     | .6981                                          | .6991  | .7001  | .7011  | .7021  | .7030  | .7040  | .7050  | .7060  | .7070  |
| 78.....                     | .6986                                          | .6996  | .7006  | .7016  | .7026  | .7035  | .7045  | .7055  | .7065  | .7075  |
| 79.....                     | .6991                                          | .7001  | .7011  | .7020  | .7030  | .7040  | .7050  | .7060  | .7069  | .7079  |
| 80.....                     | .6996                                          | .7006  | .7016  | .7025  | .7035  | .7045  | .7055  | .7065  | .7074  | .7084  |
| 81.....                     | .7001                                          | .7011  | .7021  | .7030  | .7040  | .7050  | .7060  | .7070  | .7079  | .7089  |
| 82.....                     | .7005                                          | .7015  | .7025  | .7034  | .7044  | .7054  | .7064  | .7074  | .7083  | .7093  |
| 83.....                     | .7010                                          | .7020  | .7030  | .7039  | .7049  | .7059  | .7069  | .7079  | .7088  | .7098  |
| 84.....                     | .7015                                          | .7025  | .7035  | .7044  | .7054  | .7064  | .7074  | .7084  | .7093  | .7103  |
| 85.....                     | .7020                                          | .7030  | .7040  | .7049  | .7059  | .7069  | .7079  | .7089  | .7098  | .7108  |
| 86.....                     | .7024                                          | .7034  | .7044  | .7053  | .7063  | .7073  | .7083  | .7093  | .7102  | .7112  |
| 87.....                     | .7029                                          | .7039  | .7049  | .7058  | .7068  | .7078  | .7088  | .7098  | .7107  | .7117  |
| 88.....                     | .7034                                          | .7044  | .7054  | .7063  | .7073  | .7083  | .7093  | .7103  | .7112  | .7122  |
| 89.....                     | .7038                                          | .7048  | .7058  | .7067  | .7077  | .7087  | .7097  | .7107  | .7116  | .7126  |
| 90.....                     | .7043                                          | .7053  | .7063  | .7072  | .7082  | .7092  | .7102  | .7112  | .7121  | .7131  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.700                                          | 0.701  | 0.702  | 0.703  | 0.704  | 0.705  | 0.706  | 0.707  | 0.708  | 0.709  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.6704                                         | 0.6714 | 0.6725 | 0.6735 | 0.6745 | 0.6756 | 0.6766 | 0.6777 | 0.6787 | 0.6798 |
| 1.....                      | .6709                                          | .6719  | .6730  | .6740  | .6750  | .6761  | .6771  | .6782  | .6792  | .6803  |
| 2.....                      | .6714                                          | .6724  | .6735  | .6745  | .6755  | .6766  | .6776  | .6787  | .6797  | .6808  |
| 3.....                      | .6719                                          | .6729  | .6740  | .6750  | .6760  | .6771  | .6781  | .6792  | .6802  | .6813  |
| 4.....                      | .6724                                          | .6734  | .6745  | .6755  | .6765  | .6776  | .6786  | .6797  | .6807  | .6818  |
| 5.....                      | .6729                                          | .6739  | .6750  | .6760  | .6770  | .6781  | .6791  | .6802  | .6812  | .6823  |
| 6.....                      | .6734                                          | .6744  | .6755  | .6765  | .6775  | .6786  | .6796  | .6807  | .6817  | .6828  |
| 7.....                      | .6739                                          | .6749  | .6760  | .6770  | .6780  | .6791  | .6801  | .6812  | .6822  | .6833  |
| 8.....                      | .6744                                          | .6754  | .6765  | .6775  | .6785  | .6796  | .6806  | .6817  | .6827  | .6838  |
| 9.....                      | .6749                                          | .6759  | .6770  | .6780  | .6790  | .6801  | .6811  | .6821  | .6832  | .6842  |
| 10.....                     | .6754                                          | .6764  | .6775  | .6785  | .6795  | .6806  | .6816  | .6826  | .6837  | .6847  |
| 11.....                     | .6759                                          | .6769  | .6780  | .6790  | .6800  | .6811  | .6821  | .6831  | .6841  | .6852  |
| 12.....                     | .6764                                          | .6774  | .6785  | .6795  | .6805  | .6816  | .6826  | .6836  | .6846  | .6857  |
| 13.....                     | .6769                                          | .6779  | .6790  | .6800  | .6810  | .6821  | .6831  | .6841  | .6851  | .6862  |
| 14.....                     | .6774                                          | .6784  | .6795  | .6805  | .6815  | .6826  | .6836  | .6846  | .6856  | .6867  |
| 15.....                     | .6779                                          | .6789  | .6800  | .6810  | .6820  | .6831  | .6841  | .6851  | .6861  | .6872  |
| 16.....                     | .6784                                          | .6794  | .6805  | .6815  | .6825  | .6836  | .6846  | .6856  | .6866  | .6877  |
| 17.....                     | .6789                                          | .6799  | .6810  | .6820  | .6830  | .6841  | .6851  | .6861  | .6871  | .6882  |
| 18.....                     | .6794                                          | .6804  | .6815  | .6825  | .6835  | .6846  | .6856  | .6866  | .6876  | .6887  |
| 19.....                     | .6799                                          | .6809  | .6820  | .6830  | .6840  | .6851  | .6861  | .6871  | .6881  | .6892  |
| 20.....                     | .6804                                          | .6814  | .6825  | .6835  | .6845  | .6856  | .6866  | .6876  | .6886  | .6897  |
| 21.....                     | .6809                                          | .6819  | .6830  | .6840  | .6850  | .6861  | .6871  | .6881  | .6891  | .6902  |
| 22.....                     | .6814                                          | .6824  | .6835  | .6845  | .6855  | .6866  | .6876  | .6886  | .6896  | .6907  |
| 23.....                     | .6819                                          | .6829  | .6840  | .6850  | .6860  | .6871  | .6881  | .6891  | .6901  | .6912  |
| 24.....                     | .6824                                          | .6834  | .6845  | .6855  | .6865  | .6876  | .6886  | .6896  | .6906  | .6917  |
| 25.....                     | .6829                                          | .6839  | .6850  | .6860  | .6870  | .6881  | .6891  | .6901  | .6911  | .6922  |
| 26.....                     | .6834                                          | .6844  | .6855  | .6865  | .6875  | .6886  | .6896  | .6906  | .6916  | .6927  |
| 27.....                     | .6839                                          | .6849  | .6860  | .6870  | .6880  | .6891  | .6901  | .6911  | .6921  | .6932  |
| 28.....                     | .6844                                          | .6854  | .6865  | .6875  | .6885  | .6896  | .6906  | .6916  | .6926  | .6937  |
| 29.....                     | .6849                                          | .6859  | .6870  | .6880  | .6890  | .6901  | .6911  | .6921  | .6931  | .6942  |
| 30.....                     | .6854                                          | .6864  | .6875  | .6885  | .6895  | .6906  | .6916  | .6926  | .6937  | .6947  |
| 31.....                     | .6859                                          | .6869  | .6880  | .6890  | .6900  | .6911  | .6921  | .6931  | .6941  | .6952  |
| 32.....                     | .6864                                          | .6874  | .6884  | .6895  | .6905  | .6915  | .6925  | .6935  | .6946  | .6956  |
| 33.....                     | .6869                                          | .6879  | .6889  | .6900  | .6910  | .6920  | .6930  | .6940  | .6951  | .6961  |
| 34.....                     | .6874                                          | .6884  | .6894  | .6905  | .6915  | .6925  | .6935  | .6945  | .6956  | .6966  |
| 35.....                     | .6879                                          | .6889  | .6899  | .6910  | .6920  | .6930  | .6940  | .6950  | .6961  | .6971  |
| 36.....                     | .6884                                          | .6894  | .6904  | .6915  | .6925  | .6935  | .6945  | .6955  | .6966  | .6976  |
| 37.....                     | .6889                                          | .6899  | .6909  | .6920  | .6930  | .6940  | .6950  | .6960  | .6971  | .6981  |
| 38.....                     | .6894                                          | .6904  | .6914  | .6925  | .6935  | .6945  | .6955  | .6965  | .6976  | .6986  |
| 39.....                     | .6899                                          | .6909  | .6919  | .6930  | .6940  | .6950  | .6960  | .6970  | .6981  | .6991  |
| 40.....                     | .6903                                          | .6913  | .6923  | .6934  | .6944  | .6954  | .6964  | .6974  | .6985  | .6995  |
| 41.....                     | .6908                                          | .6918  | .6928  | .6939  | .6949  | .6959  | .6969  | .6979  | .6990  | .7000  |
| 42.....                     | .6913                                          | .6923  | .6933  | .6943  | .6954  | .6964  | .6974  | .6984  | .6995  | .7005  |
| 43.....                     | .6918                                          | .6928  | .6938  | .6948  | .6958  | .6969  | .6979  | .6989  | .6999  | .7009  |
| 44.....                     | .6923                                          | .6933  | .6943  | .6953  | .6963  | .6974  | .6984  | .6994  | .7004  | .7014  |
| 45.....                     | .6928                                          | .6938  | .6948  | .6958  | .6968  | .6979  | .6989  | .6999  | .7009  | .7019  |
| 46.....                     | .6933                                          | .6943  | .6953  | .6963  | .6973  | .6984  | .6994  | .7004  | .7014  | .7024  |
| 47.....                     | .6938                                          | .6948  | .6958  | .6968  | .6978  | .6989  | .6999  | .7009  | .7019  | .7029  |
| 48.....                     | .6943                                          | .6953  | .6963  | .6973  | .6983  | .6994  | .7004  | .7014  | .7024  | .7034  |
| 49.....                     | .6948                                          | .6958  | .6968  | .6978  | .6988  | .6998  | .7009  | .7019  | .7029  | .7039  |
| 50.....                     | .6952                                          | .6962  | .6972  | .6982  | .6992  | .7003  | .7013  | .7023  | .7033  | .7043  |
| 51.....                     | .6957                                          | .6967  | .6977  | .6987  | .6997  | .7008  | .7018  | .7028  | .7038  | .7048  |
| 52.....                     | .6962                                          | .6972  | .6982  | .6992  | .7002  | .7013  | .7023  | .7033  | .7043  | .7053  |
| 53.....                     | .6966                                          | .6976  | .6986  | .6996  | .7006  | .7017  | .7027  | .7037  | .7047  | .7057  |
| 54.....                     | .6971                                          | .6981  | .6991  | .7001  | .7011  | .7022  | .7032  | .7042  | .7052  | .7062  |
| 55.....                     | .6976                                          | .6986  | .6996  | .7006  | .7016  | .7027  | .7037  | .7047  | .7057  | .7067  |
| 56.....                     | .6981                                          | .6991  | .7001  | .7011  | .7021  | .7032  | .7042  | .7052  | .7062  | .7072  |
| 57.....                     | .6986                                          | .6996  | .7006  | .7016  | .7026  | .7036  | .7046  | .7056  | .7066  | .7076  |
| 58.....                     | .6990                                          | .7000  | .7010  | .7020  | .7030  | .7040  | .7050  | .7060  | .7070  | .7080  |
| 59.....                     | .6995                                          | .7005  | .7015  | .7025  | .7035  | .7045  | .7055  | .7065  | .7075  | .7085  |
| 60.....                     | .7000                                          | .7010  | .7020  | .7030  | .7040  | .7050  | .7060  | .7070  | .7080  | .7090  |
| 61.....                     | .7005                                          | .7015  | .7025  | .7035  | .7045  | .7054  | .7064  | .7074  | .7084  | .7094  |
| 62.....                     | .7009                                          | .7019  | .7029  | .7039  | .7049  | .7059  | .7069  | .7079  | .7089  | .7099  |
| 63.....                     | .7014                                          | .7024  | .7034  | .7044  | .7054  | .7064  | .7074  | .7084  | .7094  | .7104  |
| 64.....                     | .7019                                          | .7029  | .7039  | .7049  | .7059  | .7069  | .7079  | .7089  | .7099  | .7109  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.700                                          | 0.701  | 0.702  | 0.703  | 0.704  | 0.705  | 0.706  | 0.707  | 0.708  | 0.709  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                     | 0.7024                                         | 0.7034 | 0.7044 | 0.7054 | 0.7064 | 0.7074 | 0.7084 | 0.7094 | 0.7104 | 0.7114 |
| 66.....                     | .7028                                          | .7038  | .7048  | .7058  | .7068  | .7078  | .7088  | .7098  | .7108  | .7118  |
| 67.....                     | .7033                                          | .7043  | .7053  | .7063  | .7073  | .7083  | .7093  | .7103  | .7113  | .7123  |
| 68.....                     | .7038                                          | .7048  | .7058  | .7068  | .7078  | .7087  | .7097  | .7107  | .7117  | .7127  |
| 69.....                     | .7043                                          | .7053  | .7063  | .7073  | .7083  | .7092  | .7102  | .7112  | .7122  | .7132  |
| 70.....                     | .7048                                          | .7058  | .7068  | .7078  | .7088  | .7097  | .7107  | .7117  | .7127  | .7137  |
| 71.....                     | .7052                                          | .7062  | .7072  | .7082  | .7092  | .7102  | .7112  | .7122  | .7132  | .7142  |
| 72.....                     | .7057                                          | .7067  | .7077  | .7087  | .7097  | .7107  | .7117  | .7127  | .7137  | .7147  |
| 73.....                     | .7061                                          | .7071  | .7081  | .7091  | .7101  | .7111  | .7121  | .7131  | .7141  | .7151  |
| 74.....                     | .7066                                          | .7076  | .7086  | .7096  | .7106  | .7115  | .7125  | .7135  | .7145  | .7155  |
| 75.....                     | .7071                                          | .7081  | .7091  | .7101  | .7111  | .7120  | .7130  | .7140  | .7150  | .7160  |
| 76.....                     | .7075                                          | .7085  | .7095  | .7105  | .7115  | .7124  | .7134  | .7144  | .7154  | .7164  |
| 77.....                     | .7080                                          | .7090  | .7100  | .7110  | .7120  | .7129  | .7139  | .7149  | .7159  | .7169  |
| 78.....                     | .7085                                          | .7095  | .7105  | .7115  | .7125  | .7134  | .7144  | .7154  | .7164  | .7174  |
| 79.....                     | .7089                                          | .7099  | .7109  | .7119  | .7129  | .7138  | .7148  | .7158  | .7168  | .7178  |
| 80.....                     | .7094                                          | .7104  | .7114  | .7124  | .7134  | .7143  | .7153  | .7163  | .7173  | .7183  |
| 81.....                     | .7099                                          | .7109  | .7119  | .7128  | .7138  | .7148  | .7158  | .7168  | .7177  | .7187  |
| 82.....                     | .7103                                          | .7113  | .7123  | .7132  | .7142  | .7152  | .7162  | .7172  | .7181  | .7191  |
| 83.....                     | .7108                                          | .7118  | .7128  | .7137  | .7147  | .7157  | .7167  | .7177  | .7186  | .7196  |
| 84.....                     | .7113                                          | .7122  | .7132  | .7142  | .7152  | .7161  | .7171  | .7181  | .7191  | .7201  |
| 85.....                     | .7118                                          | .7127  | .7137  | .7147  | .7157  | .7166  | .7176  | .7186  | .7196  | .7206  |
| 86.....                     | .7122                                          | .7132  | .7142  | .7151  | .7161  | .7171  | .7181  | .7191  | .7200  | .7210  |
| 87.....                     | .7127                                          | .7137  | .7147  | .7156  | .7166  | .7176  | .7186  | .7196  | .7205  | .7215  |
| 88.....                     | .7132                                          | .7142  | .7152  | .7161  | .7171  | .7181  | .7191  | .7201  | .7210  | .7220  |
| 89.....                     | .7136                                          | .7147  | .7156  | .7166  | .7176  | .7185  | .7195  | .7205  | .7214  | .7224  |
| 90.....                     | .7141                                          | .7151  | .7161  | .7170  | .7180  | .7190  | .7200  | .7210  | .7219  | .7229  |
| 91.....                     | .7146                                          | .7156  | .7165  | .7175  | .7185  | .7194  | .7204  | .7214  | .7224  | .7233  |
| 92.....                     | .7151                                          | .7161  | .7170  | .7180  | .7190  | .7199  | .7209  | .7219  | .7229  | .7238  |
| 93.....                     | .7155                                          | .7165  | .7174  | .7184  | .7194  | .7203  | .7213  | .7223  | .7233  | .7242  |
| 94.....                     | .7160                                          | .7170  | .7179  | .7189  | .7199  | .7208  | .7218  | .7228  | .7238  | .7247  |
| 95.....                     | .7164                                          | .7174  | .7184  | .7193  | .7203  | .7213  | .7223  | .7233  | .7242  | .7252  |
| 96.....                     | .7169                                          | .7179  | .7188  | .7198  | .7208  | .7217  | .7227  | .7237  | .7247  | .7256  |
| 97.....                     | .7174                                          | .7184  | .7193  | .7203  | .7213  | .7222  | .7232  | .7242  | .7252  | .7261  |
| 98.....                     | .7179                                          | .7189  | .7198  | .7208  | .7218  | .7227  | .7237  | .7247  | .7257  | .7266  |
| 99.....                     | .7184                                          | .7194  | .7203  | .7213  | .7223  | .7232  | .7242  | .7252  | .7262  | .7271  |
| 100.....                    | .7188                                          | .7198  | .7207  | .7217  | .7227  | .7236  | .7246  | .7256  | .7266  | .7275  |
| 101.....                    | .7192                                          | .7202  | .7211  | .7221  | .7231  | .7240  | .7250  | .7260  | .7270  | .7279  |
| 102.....                    | .7196                                          | .7206  | .7215  | .7225  | .7235  | .7244  | .7254  | .7264  | .7274  | .7283  |
| 103.....                    | .7200                                          | .7210  | .7219  | .7229  | .7239  | .7248  | .7258  | .7268  | .7278  | .7287  |
| 104.....                    | .7205                                          | .7215  | .7224  | .7234  | .7244  | .7253  | .7263  | .7273  | .7283  | .7292  |
| 105.....                    | .7209                                          | .7219  | .7229  | .7238  | .7248  | .7257  | .7267  | .7277  | .7287  | .7296  |
| 106.....                    | .7214                                          | .7224  | .7234  | .7243  | .7253  | .7262  | .7272  | .7282  | .7292  | .7301  |
| 107.....                    | .7219                                          | .7229  | .7238  | .7248  | .7257  | .7267  | .7277  | .7286  | .7296  | .7305  |
| 108.....                    | .7223                                          | .7233  | .7242  | .7252  | .7262  | .7271  | .7281  | .7291  | .7301  | .7310  |
| 109.....                    | .7227                                          | .7237  | .7246  | .7256  | .7266  | .7275  | .7285  | .7295  | .7305  | .7314  |
| 110.....                    | .7232                                          | .7242  | .7251  | .7261  | .7270  | .7280  | .7290  | .7299  | .7309  | .7318  |
| 111.....                    | .7236                                          | .7246  | .7255  | .7265  | .7274  | .7284  | .7294  | .7303  | .7313  | .7322  |
| 112.....                    | .7240                                          | .7250  | .7259  | .7269  | .7279  | .7288  | .7298  | .7308  | .7318  | .7327  |
| 113.....                    | .7245                                          | .7255  | .7264  | .7274  | .7283  | .7293  | .7303  | .7312  | .7322  | .7331  |
| 114.....                    | .7250                                          | .7260  | .7269  | .7279  | .7288  | .7298  | .7308  | .7317  | .7327  | .7336  |
| 115.....                    | .7254                                          | .7264  | .7273  | .7283  | .7292  | .7302  | .7312  | .7321  | .7331  | .7340  |
| 116.....                    | .7258                                          | .7268  | .7277  | .7287  | .7296  | .7306  | .7316  | .7325  | .7335  | .7344  |
| 117.....                    | .7262                                          | .7272  | .7281  | .7291  | .7300  | .7310  | .7320  | .7329  | .7339  | .7348  |
| 118.....                    | .7266                                          | .7276  | .7285  | .7295  | .7305  | .7314  | .7324  | .7334  | .7344  | .7353  |
| 119.....                    | .7270                                          | .7280  | .7289  | .7299  | .7309  | .7318  | .7328  | .7338  | .7348  | .7357  |
| 120.....                    | .7275                                          | .7285  | .7294  | .7304  | .7313  | .7323  | .7333  | .7342  | .7352  | .7361  |
| 121.....                    | .7280                                          | .7290  | .7299  | .7309  | .7318  | .7328  | .7338  | .7347  | .7357  | .7366  |
| 122.....                    | .7285                                          | .7295  | .7304  | .7314  | .7323  | .7333  | .7342  | .7352  | .7361  | .7371  |
| 123.....                    | .7289                                          | .7299  | .7308  | .7318  | .7327  | .7337  | .7347  | .7356  | .7366  | .7375  |
| 124.....                    | .7293                                          | .7303  | .7312  | .7322  | .7331  | .7341  | .7351  | .7360  | .7370  | .7379  |
| 125.....                    | .7297                                          | .7307  | .7316  | .7326  | .7335  | .7345  | .7355  | .7364  | .7374  | .7383  |
| 126.....                    | .7302                                          | .7312  | .7321  | .7331  | .7340  | .7350  | .7359  | .7369  | .7378  | .7388  |
| 127.....                    | .7307                                          | .7317  | .7326  | .7335  | .7345  | .7354  | .7364  | .7373  | .7382  | .7392  |
| 128.....                    | .7311                                          | .7321  | .7330  | .7340  | .7349  | .7359  | .7368  | .7378  | .7387  | .7397  |
| 129.....                    | .7315                                          | .7325  | .7334  | .7344  | .7353  | .7363  | .7372  | .7382  | .7391  | .7401  |
| 130.....                    | .7319                                          | .7329  | .7338  | .7348  | .7357  | .7367  | .7376  | .7386  | .7395  | .7405  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.710                                          | 0.711  | 0.712  | 0.713  | 0.714  | 0.715  | 0.716  | 0.717  | 0.718  | 0.719  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.6808                                         | 0.6818 | 0.6829 | 0.6839 | 0.6850 | 0.6860 | 0.6870 | 0.6881 | 0.6891 | 0.6902 |
| 1.....                      | .6813                                          | .6823  | .6834  | .6844  | .6855  | .6865  | .6875  | .6886  | .6896  | .6907  |
| 2.....                      | .6818                                          | .6828  | .6839  | .6849  | .6860  | .6870  | .6880  | .6891  | .6901  | .6912  |
| 3.....                      | .6823                                          | .6833  | .6844  | .6854  | .6865  | .6875  | .6885  | .6896  | .6906  | .6917  |
| 4.....                      | .6828                                          | .6838  | .6849  | .6859  | .6870  | .6880  | .6890  | .6901  | .6911  | .6922  |
| 5.....                      | .6833                                          | .6843  | .6854  | .6864  | .6875  | .6885  | .6895  | .6906  | .6916  | .6927  |
| 6.....                      | .6838                                          | .6848  | .6859  | .6869  | .6879  | .6890  | .6900  | .6910  | .6920  | .6931  |
| 7.....                      | .6843                                          | .6853  | .6864  | .6874  | .6884  | .6895  | .6905  | .6915  | .6925  | .6936  |
| 8.....                      | .6848                                          | .6858  | .6869  | .6879  | .6889  | .6900  | .6910  | .6920  | .6930  | .6941  |
| 9.....                      | .6852                                          | .6862  | .6873  | .6883  | .6894  | .6904  | .6914  | .6925  | .6935  | .6946  |
| 10.....                     | .6857                                          | .6867  | .6878  | .6888  | .6899  | .6909  | .6919  | .6930  | .6940  | .6951  |
| 11.....                     | .6862                                          | .6872  | .6883  | .6893  | .6904  | .6914  | .6924  | .6935  | .6945  | .6956  |
| 12.....                     | .6867                                          | .6877  | .6888  | .6898  | .6909  | .6919  | .6929  | .6940  | .6950  | .6961  |
| 13.....                     | .6872                                          | .6882  | .6893  | .6903  | .6913  | .6924  | .6934  | .6944  | .6954  | .6965  |
| 14.....                     | .6877                                          | .6887  | .6898  | .6908  | .6918  | .6929  | .6939  | .6949  | .6959  | .6970  |
| 15.....                     | .6882                                          | .6892  | .6903  | .6913  | .6923  | .6934  | .6944  | .6954  | .6964  | .6975  |
| 16.....                     | .6887                                          | .6897  | .6908  | .6918  | .6928  | .6939  | .6949  | .6959  | .6969  | .6980  |
| 17.....                     | .6892                                          | .6902  | .6913  | .6923  | .6933  | .6944  | .6954  | .6964  | .6974  | .6985  |
| 18.....                     | .6897                                          | .6907  | .6918  | .6928  | .6938  | .6949  | .6959  | .6969  | .6979  | .6990  |
| 19.....                     | .6902                                          | .6912  | .6923  | .6933  | .6943  | .6954  | .6964  | .6974  | .6984  | .6995  |
| 20.....                     | .6907                                          | .6917  | .6928  | .6938  | .6948  | .6959  | .6969  | .6979  | .6989  | .7000  |
| 21.....                     | .6912                                          | .6922  | .6933  | .6943  | .6953  | .6964  | .6974  | .6984  | .6994  | .7005  |
| 22.....                     | .6917                                          | .6927  | .6938  | .6948  | .6958  | .6969  | .6979  | .6989  | .6999  | .7010  |
| 23.....                     | .6922                                          | .6932  | .6943  | .6953  | .6963  | .6974  | .6984  | .6994  | .7004  | .7015  |
| 24.....                     | .6927                                          | .6937  | .6948  | .6958  | .6968  | .6979  | .6989  | .6999  | .7009  | .7020  |
| 25.....                     | .6932                                          | .6942  | .6953  | .6963  | .6973  | .6984  | .6994  | .7004  | .7014  | .7025  |
| 26.....                     | .6937                                          | .6947  | .6957  | .6968  | .6978  | .6988  | .6998  | .7008  | .7019  | .7029  |
| 27.....                     | .6942                                          | .6952  | .6962  | .6973  | .6983  | .6993  | .7003  | .7013  | .7024  | .7034  |
| 28.....                     | .6947                                          | .6957  | .6967  | .6978  | .6988  | .6998  | .7008  | .7018  | .7029  | .7039  |
| 29.....                     | .6952                                          | .6962  | .6972  | .6983  | .6993  | .7003  | .7013  | .7023  | .7034  | .7044  |
| 30.....                     | .6957                                          | .6967  | .6977  | .6988  | .6998  | .7008  | .7018  | .7028  | .7039  | .7049  |
| 31.....                     | .6962                                          | .6972  | .6982  | .6993  | .7003  | .7013  | .7023  | .7033  | .7044  | .7054  |
| 32.....                     | .6966                                          | .6976  | .6986  | .6997  | .7007  | .7017  | .7027  | .7037  | .7048  | .7058  |
| 33.....                     | .6971                                          | .6981  | .6991  | .7002  | .7012  | .7022  | .7032  | .7042  | .7053  | .7063  |
| 34.....                     | .6976                                          | .6986  | .6996  | .7007  | .7017  | .7027  | .7037  | .7047  | .7058  | .7068  |
| 35.....                     | .6981                                          | .6991  | .7001  | .7012  | .7022  | .7032  | .7042  | .7052  | .7063  | .7073  |
| 36.....                     | .6986                                          | .6996  | .7006  | .7017  | .7027  | .7037  | .7047  | .7057  | .7068  | .7078  |
| 37.....                     | .6991                                          | .7001  | .7011  | .7021  | .7031  | .7042  | .7052  | .7062  | .7072  | .7082  |
| 38.....                     | .6996                                          | .7006  | .7016  | .7026  | .7036  | .7047  | .7057  | .7067  | .7077  | .7087  |
| 39.....                     | .7001                                          | .7011  | .7021  | .7031  | .7041  | .7052  | .7062  | .7072  | .7082  | .7092  |
| 40.....                     | .7005                                          | .7015  | .7025  | .7035  | .7045  | .7056  | .7066  | .7076  | .7086  | .7096  |
| 41.....                     | .7010                                          | .7020  | .7030  | .7040  | .7050  | .7061  | .7071  | .7081  | .7091  | .7101  |
| 42.....                     | .7015                                          | .7025  | .7035  | .7045  | .7055  | .7066  | .7076  | .7086  | .7096  | .7106  |
| 43.....                     | .7019                                          | .7029  | .7039  | .7049  | .7059  | .7070  | .7080  | .7090  | .7100  | .7110  |
| 44.....                     | .7024                                          | .7034  | .7044  | .7054  | .7064  | .7075  | .7085  | .7095  | .7105  | .7115  |
| 45.....                     | .7029                                          | .7039  | .7049  | .7059  | .7069  | .7080  | .7090  | .7100  | .7110  | .7120  |
| 46.....                     | .7034                                          | .7044  | .7054  | .7064  | .7074  | .7085  | .7095  | .7105  | .7115  | .7125  |
| 47.....                     | .7039                                          | .7049  | .7059  | .7069  | .7079  | .7090  | .7100  | .7110  | .7120  | .7130  |
| 48.....                     | .7044                                          | .7054  | .7064  | .7074  | .7084  | .7095  | .7105  | .7115  | .7125  | .7135  |
| 49.....                     | .7049                                          | .7059  | .7069  | .7079  | .7089  | .7099  | .7109  | .7119  | .7129  | .7139  |
| 50.....                     | .7053                                          | .7063  | .7073  | .7083  | .7093  | .7103  | .7113  | .7123  | .7133  | .7143  |
| 51.....                     | .7058                                          | .7068  | .7078  | .7088  | .7098  | .7108  | .7118  | .7128  | .7138  | .7148  |
| 52.....                     | .7063                                          | .7073  | .7083  | .7093  | .7103  | .7113  | .7123  | .7133  | .7143  | .7153  |
| 53.....                     | .7067                                          | .7077  | .7087  | .7097  | .7107  | .7117  | .7127  | .7137  | .7147  | .7157  |
| 54.....                     | .7072                                          | .7082  | .7092  | .7102  | .7112  | .7122  | .7132  | .7142  | .7152  | .7162  |
| 55.....                     | .7077                                          | .7087  | .7097  | .7107  | .7117  | .7127  | .7137  | .7147  | .7157  | .7167  |
| 56.....                     | .7082                                          | .7092  | .7102  | .7112  | .7122  | .7132  | .7142  | .7152  | .7162  | .7172  |
| 57.....                     | .7086                                          | .7096  | .7106  | .7116  | .7126  | .7136  | .7146  | .7156  | .7166  | .7176  |
| 58.....                     | .7090                                          | .7100  | .7110  | .7120  | .7130  | .7140  | .7150  | .7160  | .7170  | .7180  |
| 59.....                     | .7095                                          | .7105  | .7115  | .7125  | .7135  | .7145  | .7155  | .7165  | .7175  | .7185  |
| 60.....                     | .7100                                          | .7110  | .7120  | .7130  | .7140  | .7150  | .7160  | .7170  | .7180  | .7190  |
| 61.....                     | .7104                                          | .7114  | .7124  | .7134  | .7144  | .7154  | .7164  | .7174  | .7184  | .7194  |
| 62.....                     | .7109                                          | .7119  | .7129  | .7139  | .7149  | .7159  | .7169  | .7179  | .7189  | .7199  |
| 63.....                     | .7114                                          | .7124  | .7134  | .7144  | .7154  | .7164  | .7174  | .7184  | .7194  | .7204  |
| 64.....                     | .7119                                          | .7129  | .7139  | .7149  | .7159  | .7169  | .7179  | .7189  | .7199  | .7209  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.710                                          | 0.711  | 0.712  | 0.713  | 0.714  | 0.715  | 0.716  | 0.717  | 0.718  | 0.719  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                     | 0.7124                                         | 0.7134 | 0.7144 | 0.7154 | 0.7164 | 0.7174 | 0.7184 | 0.7194 | 0.7204 | 0.7214 |
| 66.....                     | .7128                                          | .7138  | .7148  | .7158  | .7168  | .7178  | .7188  | .7198  | .7208  | .7218  |
| 67.....                     | .7133                                          | .7143  | .7153  | .7163  | .7173  | .7183  | .7193  | .7203  | .7213  | .7223  |
| 68.....                     | .7137                                          | .7147  | .7157  | .7167  | .7177  | .7187  | .7197  | .7207  | .7217  | .7227  |
| 69.....                     | .7142                                          | .7152  | .7162  | .7172  | .7182  | .7191  | .7201  | .7211  | .7221  | .7231  |
| 70.....                     | .7147                                          | .7157  | .7167  | .7177  | .7187  | .7196  | .7206  | .7216  | .7226  | .7236  |
| 71.....                     | .7152                                          | .7162  | .7172  | .7182  | .7192  | .7201  | .7211  | .7221  | .7231  | .7241  |
| 72.....                     | .7157                                          | .7167  | .7177  | .7187  | .7197  | .7206  | .7216  | .7226  | .7236  | .7246  |
| 73.....                     | .7161                                          | .7171  | .7181  | .7191  | .7201  | .7210  | .7220  | .7230  | .7240  | .7250  |
| 74.....                     | .7165                                          | .7175  | .7185  | .7195  | .7205  | .7215  | .7225  | .7235  | .7245  | .7255  |
| 75.....                     | .7170                                          | .7180  | .7190  | .7200  | .7210  | .7219  | .7229  | .7239  | .7249  | .7259  |
| 76.....                     | .7174                                          | .7184  | .7194  | .7204  | .7214  | .7223  | .7233  | .7243  | .7253  | .7263  |
| 77.....                     | .7179                                          | .7189  | .7199  | .7209  | .7219  | .7228  | .7238  | .7248  | .7258  | .7268  |
| 78.....                     | .7184                                          | .7194  | .7204  | .7214  | .7224  | .7233  | .7243  | .7253  | .7263  | .7273  |
| 79.....                     | .7188                                          | .7198  | .7208  | .7218  | .7228  | .7237  | .7247  | .7257  | .7267  | .7277  |
| 80.....                     | .7193                                          | .7203  | .7213  | .7222  | .7232  | .7242  | .7252  | .7262  | .7271  | .7281  |
| 81.....                     | .7197                                          | .7207  | .7217  | .7226  | .7236  | .7246  | .7256  | .7266  | .7275  | .7285  |
| 82.....                     | .7201                                          | .7211  | .7221  | .7231  | .7241  | .7250  | .7260  | .7270  | .7280  | .7290  |
| 83.....                     | .7206                                          | .7216  | .7226  | .7235  | .7245  | .7255  | .7265  | .7275  | .7284  | .7294  |
| 84.....                     | .7211                                          | .7221  | .7231  | .7240  | .7250  | .7260  | .7270  | .7280  | .7289  | .7299  |
| 85.....                     | .7216                                          | .7226  | .7236  | .7245  | .7255  | .7265  | .7275  | .7285  | .7294  | .7304  |
| 86.....                     | .7220                                          | .7230  | .7240  | .7249  | .7259  | .7269  | .7279  | .7289  | .7298  | .7308  |
| 87.....                     | .7225                                          | .7235  | .7245  | .7254  | .7264  | .7274  | .7284  | .7294  | .7303  | .7313  |
| 88.....                     | .7230                                          | .7240  | .7250  | .7259  | .7269  | .7279  | .7289  | .7299  | .7308  | .7318  |
| 89.....                     | .7234                                          | .7244  | .7254  | .7263  | .7273  | .7283  | .7293  | .7303  | .7312  | .7322  |
| 90.....                     | .7239                                          | .7249  | .7258  | .7268  | .7278  | .7287  | .7297  | .7307  | .7317  | .7326  |
| 91.....                     | .7243                                          | .7253  | .7262  | .7272  | .7282  | .7291  | .7301  | .7311  | .7321  | .7330  |
| 92.....                     | .7248                                          | .7258  | .7267  | .7277  | .7287  | .7296  | .7306  | .7316  | .7326  | .7335  |
| 93.....                     | .7252                                          | .7262  | .7271  | .7281  | .7291  | .7300  | .7310  | .7320  | .7330  | .7339  |
| 94.....                     | .7257                                          | .7267  | .7276  | .7286  | .7296  | .7305  | .7315  | .7325  | .7335  | .7344  |
| 95.....                     | .7262                                          | .7272  | .7281  | .7291  | .7301  | .7310  | .7320  | .7330  | .7340  | .7349  |
| 96.....                     | .7266                                          | .7276  | .7285  | .7295  | .7305  | .7314  | .7324  | .7334  | .7344  | .7353  |
| 97.....                     | .7271                                          | .7281  | .7290  | .7300  | .7310  | .7319  | .7329  | .7339  | .7349  | .7358  |
| 98.....                     | .7276                                          | .7286  | .7295  | .7305  | .7315  | .7324  | .7334  | .7344  | .7354  | .7363  |
| 99.....                     | .7281                                          | .7291  | .7300  | .7310  | .7319  | .7329  | .7339  | .7348  | .7358  | .7367  |
| 100.....                    | .7285                                          | .7295  | .7304  | .7314  | .7323  | .7333  | .7343  | .7352  | .7362  | .7371  |
| 101.....                    | .7289                                          | .7299  | .7308  | .7318  | .7327  | .7337  | .7347  | .7356  | .7366  | .7375  |
| 102.....                    | .7293                                          | .7303  | .7312  | .7322  | .7331  | .7341  | .7351  | .7360  | .7370  | .7379  |
| 103.....                    | .7297                                          | .7307  | .7316  | .7326  | .7336  | .7345  | .7355  | .7365  | .7375  | .7384  |
| 104.....                    | .7302                                          | .7312  | .7321  | .7331  | .7340  | .7350  | .7360  | .7369  | .7379  | .7388  |
| 105.....                    | .7306                                          | .7316  | .7325  | .7335  | .7345  | .7354  | .7364  | .7374  | .7384  | .7393  |
| 106.....                    | .7311                                          | .7321  | .7330  | .7340  | .7349  | .7359  | .7369  | .7378  | .7388  | .7397  |
| 107.....                    | .7315                                          | .7325  | .7334  | .7344  | .7353  | .7363  | .7373  | .7382  | .7392  | .7401  |
| 108.....                    | .7320                                          | .7330  | .7339  | .7349  | .7358  | .7368  | .7378  | .7387  | .7397  | .7406  |
| 109.....                    | .7324                                          | .7334  | .7343  | .7353  | .7362  | .7372  | .7382  | .7391  | .7401  | .7410  |
| 110.....                    | .7328                                          | .7338  | .7347  | .7357  | .7366  | .7376  | .7386  | .7395  | .7405  | .7414  |
| 111.....                    | .7332                                          | .7342  | .7351  | .7361  | .7370  | .7380  | .7390  | .7399  | .7409  | .7418  |
| 112.....                    | .7337                                          | .7347  | .7356  | .7366  | .7375  | .7385  | .7395  | .7404  | .7414  | .7423  |
| 113.....                    | .7341                                          | .7351  | .7360  | .7370  | .7379  | .7389  | .7399  | .7408  | .7418  | .7427  |
| 114.....                    | .7346                                          | .7356  | .7365  | .7375  | .7384  | .7394  | .7403  | .7413  | .7422  | .7432  |
| 115.....                    | .7350                                          | .7360  | .7369  | .7379  | .7388  | .7398  | .7407  | .7417  | .7426  | .7436  |
| 116.....                    | .7354                                          | .7364  | .7373  | .7383  | .7392  | .7402  | .7411  | .7421  | .7430  | .7440  |
| 117.....                    | .7358                                          | .7368  | .7377  | .7387  | .7396  | .7406  | .7416  | .7425  | .7435  | .7444  |
| 118.....                    | .7363                                          | .7373  | .7382  | .7392  | .7401  | .7411  | .7421  | .7430  | .7440  | .7449  |
| 119.....                    | .7367                                          | .7377  | .7386  | .7396  | .7405  | .7415  | .7425  | .7434  | .7444  | .7453  |
| 120.....                    | .7371                                          | .7381  | .7390  | .7400  | .7409  | .7419  | .7429  | .7438  | .7448  | .7457  |
| 121.....                    | .7376                                          | .7386  | .7395  | .7405  | .7414  | .7424  | .7433  | .7443  | .7452  | .7462  |
| 122.....                    | .7380                                          | .7390  | .7399  | .7409  | .7418  | .7428  | .7437  | .7447  | .7456  | .7466  |
| 123.....                    | .7384                                          | .7394  | .7403  | .7413  | .7422  | .7432  | .7441  | .7451  | .7460  | .7470  |
| 124.....                    | .7388                                          | .7398  | .7407  | .7417  | .7426  | .7436  | .7445  | .7455  | .7464  | .7474  |
| 125.....                    | .7392                                          | .7402  | .7411  | .7421  | .7430  | .7440  | .7449  | .7459  | .7468  | .7478  |
| 126.....                    | .7397                                          | .7406  | .7416  | .7425  | .7435  | .7444  | .7453  | .7463  | .7472  | .7482  |
| 127.....                    | .7401                                          | .7411  | .7420  | .7430  | .7439  | .7449  | .7458  | .7468  | .7477  | .7487  |
| 128.....                    | .7406                                          | .7415  | .7425  | .7434  | .7444  | .7453  | .7462  | .7472  | .7481  | .7491  |
| 129.....                    | .7410                                          | .7419  | .7429  | .7438  | .7448  | .7457  | .7466  | .7476  | .7485  | .7495  |
| 130.....                    | .7414                                          | .7423  | .7433  | .7442  | .7452  | .7461  | .7470  | .7480  | .7489  | .7499  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.720                                          | 0.721  | 0.722  | 0.723  | 0.724  | 0.725  | 0.726  | 0.727  | 0.728  | 0.729  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.6912                                         | 0.6922 | 0.6933 | 0.6943 | 0.6954 | 0.6964 | 0.6974 | 0.6985 | 0.6995 | 0.7006 |
| 1.....                      | .6917                                          | .6927  | .6938  | .6948  | .6959  | .6969  | .6979  | .6990  | .7000  | .7011  |
| 2.....                      | .6922                                          | .6932  | .6943  | .6953  | .6964  | .6974  | .6984  | .6995  | .7005  | .7016  |
| 3.....                      | .6927                                          | .6937  | .6948  | .6958  | .6969  | .6979  | .6989  | .7000  | .7010  | .7021  |
| 4.....                      | .6932                                          | .6942  | .6953  | .6963  | .6974  | .6984  | .6994  | .7005  | .7015  | .7026  |
| 5.....                      | .6937                                          | .6947  | .6958  | .6968  | .6978  | .6989  | .6999  | .7009  | .7020  | .7030  |
| 6.....                      | .6941                                          | .6951  | .6962  | .6972  | .6983  | .6993  | .7003  | .7014  | .7024  | .7035  |
| 7.....                      | .6946                                          | .6956  | .6967  | .6977  | .6988  | .6998  | .7008  | .7019  | .7029  | .7040  |
| 8.....                      | .6951                                          | .6961  | .6972  | .6982  | .6993  | .7003  | .7013  | .7024  | .7034  | .7045  |
| 9.....                      | .6956                                          | .6966  | .6977  | .6987  | .6998  | .7008  | .7018  | .7029  | .7039  | .7050  |
| 10.....                     | .6961                                          | .6971  | .6982  | .6992  | .7003  | .7013  | .7023  | .7034  | .7044  | .7055  |
| 11.....                     | .6966                                          | .6976  | .6987  | .6997  | .7008  | .7018  | .7028  | .7039  | .7049  | .7060  |
| 12.....                     | .6971                                          | .6981  | .6992  | .7002  | .7013  | .7023  | .7033  | .7044  | .7054  | .7065  |
| 13.....                     | .6975                                          | .6985  | .6996  | .7006  | .7017  | .7027  | .7037  | .7048  | .7058  | .7069  |
| 14.....                     | .6980                                          | .6990  | .7001  | .7011  | .7022  | .7032  | .7042  | .7053  | .7063  | .7074  |
| 15.....                     | .6985                                          | .6995  | .7006  | .7016  | .7027  | .7037  | .7047  | .7058  | .7068  | .7079  |
| 16.....                     | .6990                                          | .7000  | .7011  | .7021  | .7032  | .7042  | .7052  | .7063  | .7073  | .7084  |
| 17.....                     | .6995                                          | .7005  | .7016  | .7026  | .7037  | .7047  | .7057  | .7068  | .7078  | .7089  |
| 18.....                     | .7000                                          | .7010  | .7021  | .7031  | .7042  | .7052  | .7062  | .7073  | .7083  | .7094  |
| 19.....                     | .7005                                          | .7015  | .7026  | .7036  | .7047  | .7057  | .7067  | .7078  | .7088  | .7099  |
| 20.....                     | .7010                                          | .7020  | .7031  | .7041  | .7051  | .7062  | .7072  | .7082  | .7092  | .7103  |
| 21.....                     | .7015                                          | .7025  | .7036  | .7046  | .7056  | .7067  | .7077  | .7087  | .7097  | .7108  |
| 22.....                     | .7020                                          | .7030  | .7041  | .7051  | .7061  | .7072  | .7082  | .7092  | .7102  | .7113  |
| 23.....                     | .7025                                          | .7035  | .7045  | .7056  | .7066  | .7076  | .7086  | .7096  | .7107  | .7117  |
| 24.....                     | .7030                                          | .7040  | .7050  | .7061  | .7071  | .7081  | .7091  | .7101  | .7112  | .7122  |
| 25.....                     | .7035                                          | .7045  | .7055  | .7066  | .7076  | .7086  | .7096  | .7106  | .7117  | .7127  |
| 26.....                     | .7039                                          | .7049  | .7060  | .7070  | .7080  | .7091  | .7101  | .7111  | .7121  | .7132  |
| 27.....                     | .7044                                          | .7054  | .7065  | .7075  | .7085  | .7096  | .7106  | .7116  | .7126  | .7137  |
| 28.....                     | .7049                                          | .7059  | .7070  | .7080  | .7090  | .7101  | .7111  | .7121  | .7131  | .7142  |
| 29.....                     | .7054                                          | .7064  | .7075  | .7085  | .7095  | .7106  | .7116  | .7126  | .7136  | .7147  |
| 30.....                     | .7059                                          | .7069  | .7079  | .7090  | .7100  | .7110  | .7120  | .7130  | .7141  | .7151  |
| 31.....                     | .7064                                          | .7074  | .7084  | .7095  | .7105  | .7115  | .7125  | .7135  | .7146  | .7156  |
| 32.....                     | .7068                                          | .7078  | .7088  | .7099  | .7109  | .7119  | .7129  | .7139  | .7150  | .7160  |
| 33.....                     | .7073                                          | .7083  | .7093  | .7104  | .7114  | .7124  | .7134  | .7144  | .7155  | .7165  |
| 34.....                     | .7078                                          | .7088  | .7098  | .7109  | .7119  | .7129  | .7139  | .7149  | .7160  | .7170  |
| 35.....                     | .7083                                          | .7093  | .7103  | .7114  | .7124  | .7134  | .7144  | .7154  | .7165  | .7175  |
| 36.....                     | .7088                                          | .7098  | .7108  | .7119  | .7129  | .7139  | .7149  | .7159  | .7170  | .7180  |
| 37.....                     | .7092                                          | .7102  | .7112  | .7123  | .7133  | .7143  | .7153  | .7163  | .7174  | .7184  |
| 38.....                     | .7097                                          | .7107  | .7117  | .7128  | .7138  | .7148  | .7158  | .7168  | .7179  | .7189  |
| 39.....                     | .7102                                          | .7112  | .7122  | .7132  | .7142  | .7153  | .7163  | .7173  | .7183  | .7193  |
| 40.....                     | .7106                                          | .7116  | .7126  | .7137  | .7147  | .7157  | .7167  | .7177  | .7188  | .7198  |
| 41.....                     | .7111                                          | .7121  | .7131  | .7141  | .7151  | .7162  | .7172  | .7182  | .7192  | .7202  |
| 42.....                     | .7116                                          | .7126  | .7136  | .7146  | .7156  | .7167  | .7177  | .7187  | .7197  | .7207  |
| 43.....                     | .7120                                          | .7130  | .7140  | .7150  | .7160  | .7171  | .7181  | .7191  | .7201  | .7211  |
| 44.....                     | .7125                                          | .7135  | .7145  | .7155  | .7165  | .7176  | .7186  | .7196  | .7206  | .7216  |
| 45.....                     | .7130                                          | .7140  | .7150  | .7160  | .7170  | .7181  | .7191  | .7201  | .7211  | .7221  |
| 46.....                     | .7135                                          | .7145  | .7155  | .7165  | .7175  | .7186  | .7196  | .7206  | .7216  | .7226  |
| 47.....                     | .7140                                          | .7150  | .7160  | .7170  | .7180  | .7191  | .7201  | .7211  | .7221  | .7231  |
| 48.....                     | .7145                                          | .7155  | .7165  | .7175  | .7185  | .7195  | .7205  | .7215  | .7225  | .7235  |
| 49.....                     | .7149                                          | .7159  | .7169  | .7179  | .7189  | .7200  | .7210  | .7220  | .7230  | .7240  |
| 50.....                     | .7153                                          | .7163  | .7173  | .7183  | .7193  | .7204  | .7214  | .7224  | .7234  | .7244  |
| 51.....                     | .7158                                          | .7168  | .7178  | .7188  | .7198  | .7209  | .7219  | .7229  | .7239  | .7249  |
| 52.....                     | .7163                                          | .7173  | .7183  | .7193  | .7203  | .7214  | .7224  | .7234  | .7244  | .7254  |
| 53.....                     | .7167                                          | .7177  | .7187  | .7197  | .7207  | .7218  | .7228  | .7238  | .7248  | .7258  |
| 54.....                     | .7172                                          | .7182  | .7192  | .7202  | .7212  | .7223  | .7233  | .7243  | .7253  | .7263  |
| 55.....                     | .7177                                          | .7187  | .7197  | .7207  | .7217  | .7227  | .7237  | .7247  | .7257  | .7267  |
| 56.....                     | .7182                                          | .7192  | .7202  | .7212  | .7222  | .7232  | .7242  | .7252  | .7262  | .7272  |
| 57.....                     | .7186                                          | .7196  | .7206  | .7216  | .7226  | .7236  | .7246  | .7256  | .7266  | .7276  |
| 58.....                     | .7190                                          | .7200  | .7210  | .7220  | .7230  | .7240  | .7250  | .7260  | .7270  | .7280  |
| 59.....                     | .7195                                          | .7205  | .7215  | .7225  | .7235  | .7245  | .7255  | .7265  | .7275  | .7285  |
| 60.....                     | .7200                                          | .7210  | .7220  | .7230  | .7240  | .7250  | .7260  | .7270  | .7280  | .7290  |
| 61.....                     | .7204                                          | .7214  | .7224  | .7234  | .7244  | .7254  | .7264  | .7274  | .7284  | .7294  |
| 62.....                     | .7209                                          | .7219  | .7229  | .7239  | .7249  | .7259  | .7269  | .7279  | .7289  | .7299  |
| 63.....                     | .7214                                          | .7224  | .7234  | .7244  | .7254  | .7264  | .7274  | .7284  | .7294  | .7304  |
| 64.....                     | .7219                                          | .7229  | .7239  | .7249  | .7259  | .7269  | .7279  | .7289  | .7299  | .7309  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.720                                          | 0.721  | 0.722  | 0.723  | 0.724  | 0.725  | 0.726  | 0.727  | 0.728  | 0.729  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                     | 0.7224                                         | 0.7234 | 0.7244 | 0.7254 | 0.7264 | 0.7273 | 0.7283 | 0.7293 | 0.7303 | 0.7313 |
| 66.....                     | .7228                                          | .7238  | .7248  | .7258  | .7268  | .7277  | .7287  | .7297  | .7307  | .7317  |
| 67.....                     | .7233                                          | .7243  | .7253  | .7263  | .7273  | .7282  | .7292  | .7302  | .7312  | .7322  |
| 68.....                     | .7237                                          | .7247  | .7257  | .7267  | .7277  | .7286  | .7296  | .7306  | .7316  | .7326  |
| 69.....                     | .7241                                          | .7251  | .7261  | .7271  | .7281  | .7290  | .7300  | .7310  | .7320  | .7330  |
| 70.....                     | .7246                                          | .7256  | .7266  | .7276  | .7286  | .7295  | .7305  | .7315  | .7325  | .7335  |
| 71.....                     | .7251                                          | .7261  | .7271  | .7281  | .7291  | .7300  | .7310  | .7320  | .7330  | .7340  |
| 72.....                     | .7256                                          | .7266  | .7276  | .7285  | .7295  | .7305  | .7315  | .7325  | .7334  | .7344  |
| 73.....                     | .7260                                          | .7270  | .7280  | .7290  | .7300  | .7309  | .7319  | .7329  | .7339  | .7349  |
| 74.....                     | .7265                                          | .7275  | .7285  | .7294  | .7304  | .7314  | .7324  | .7334  | .7343  | .7353  |
| 75.....                     | .7269                                          | .7279  | .7289  | .7298  | .7308  | .7318  | .7328  | .7338  | .7347  | .7357  |
| 76.....                     | .7273                                          | .7283  | .7293  | .7303  | .7313  | .7322  | .7332  | .7342  | .7352  | .7362  |
| 77.....                     | .7278                                          | .7288  | .7298  | .7308  | .7318  | .7327  | .7337  | .7347  | .7357  | .7367  |
| 78.....                     | .7283                                          | .7293  | .7303  | .7312  | .7322  | .7332  | .7342  | .7352  | .7361  | .7371  |
| 79.....                     | .7287                                          | .7297  | .7307  | .7316  | .7326  | .7336  | .7346  | .7356  | .7365  | .7375  |
| 80.....                     | .7291                                          | .7301  | .7311  | .7320  | .7330  | .7340  | .7350  | .7360  | .7369  | .7379  |
| 81.....                     | .7295                                          | .7305  | .7315  | .7324  | .7334  | .7344  | .7354  | .7364  | .7373  | .7383  |
| 82.....                     | .7300                                          | .7310  | .7320  | .7329  | .7339  | .7349  | .7359  | .7369  | .7378  | .7388  |
| 83.....                     | .7304                                          | .7314  | .7324  | .7333  | .7343  | .7353  | .7363  | .7373  | .7382  | .7392  |
| 84.....                     | .7309                                          | .7319  | .7329  | .7338  | .7348  | .7358  | .7368  | .7378  | .7387  | .7397  |
| 85.....                     | .7314                                          | .7324  | .7333  | .7343  | .7353  | .7362  | .7372  | .7382  | .7392  | .7401  |
| 86.....                     | .7318                                          | .7328  | .7338  | .7347  | .7357  | .7367  | .7377  | .7387  | .7396  | .7406  |
| 87.....                     | .7323                                          | .7333  | .7342  | .7352  | .7362  | .7371  | .7381  | .7391  | .7401  | .7410  |
| 88.....                     | .7328                                          | .7338  | .7347  | .7357  | .7367  | .7376  | .7386  | .7396  | .7406  | .7415  |
| 89.....                     | .7332                                          | .7342  | .7351  | .7361  | .7371  | .7380  | .7390  | .7400  | .7410  | .7419  |
| 90.....                     | .7336                                          | .7346  | .7355  | .7365  | .7375  | .7384  | .7394  | .7404  | .7414  | .7423  |
| 91.....                     | .7340                                          | .7350  | .7359  | .7369  | .7379  | .7388  | .7398  | .7408  | .7418  | .7427  |
| 92.....                     | .7345                                          | .7355  | .7364  | .7374  | .7384  | .7393  | .7403  | .7413  | .7423  | .7432  |
| 93.....                     | .7349                                          | .7359  | .7368  | .7378  | .7388  | .7397  | .7407  | .7417  | .7427  | .7436  |
| 94.....                     | .7354                                          | .7364  | .7373  | .7383  | .7393  | .7402  | .7412  | .7422  | .7432  | .7441  |
| 95.....                     | .7359                                          | .7369  | .7378  | .7388  | .7398  | .7407  | .7417  | .7427  | .7437  | .7446  |
| 96.....                     | .7363                                          | .7373  | .7382  | .7392  | .7402  | .7411  | .7421  | .7431  | .7441  | .7450  |
| 97.....                     | .7368                                          | .7378  | .7387  | .7397  | .7407  | .7416  | .7426  | .7436  | .7446  | .7455  |
| 98.....                     | .7373                                          | .7383  | .7392  | .7402  | .7411  | .7421  | .7431  | .7440  | .7450  | .7459  |
| 99.....                     | .7377                                          | .7387  | .7396  | .7406  | .7415  | .7425  | .7435  | .7444  | .7454  | .7463  |
| 100.....                    | .7381                                          | .7391  | .7400  | .7410  | .7419  | .7429  | .7439  | .7448  | .7458  | .7467  |
| 101.....                    | .7385                                          | .7395  | .7404  | .7414  | .7423  | .7433  | .7443  | .7452  | .7462  | .7471  |
| 102.....                    | .7389                                          | .7399  | .7408  | .7418  | .7427  | .7437  | .7447  | .7456  | .7466  | .7475  |
| 103.....                    | .7394                                          | .7404  | .7413  | .7423  | .7432  | .7442  | .7452  | .7461  | .7471  | .7480  |
| 104.....                    | .7398                                          | .7408  | .7417  | .7427  | .7436  | .7446  | .7456  | .7465  | .7475  | .7484  |
| 105.....                    | .7403                                          | .7413  | .7422  | .7432  | .7441  | .7451  | .7461  | .7470  | .7480  | .7489  |
| 106.....                    | .7407                                          | .7417  | .7426  | .7436  | .7445  | .7455  | .7465  | .7474  | .7484  | .7493  |
| 107.....                    | .7411                                          | .7421  | .7430  | .7440  | .7449  | .7459  | .7469  | .7478  | .7488  | .7497  |
| 108.....                    | .7416                                          | .7426  | .7435  | .7445  | .7454  | .7464  | .7473  | .7483  | .7492  | .7502  |
| 109.....                    | .7420                                          | .7430  | .7439  | .7449  | .7458  | .7468  | .7477  | .7487  | .7496  | .7506  |
| 110.....                    | .7424                                          | .7434  | .7443  | .7453  | .7462  | .7472  | .7481  | .7491  | .7500  | .7510  |
| 111.....                    | .7428                                          | .7438  | .7447  | .7457  | .7466  | .7476  | .7486  | .7495  | .7505  | .7514  |
| 112.....                    | .7433                                          | .7443  | .7452  | .7462  | .7471  | .7481  | .7490  | .7500  | .7509  | .7519  |
| 113.....                    | .7437                                          | .7447  | .7456  | .7466  | .7475  | .7485  | .7494  | .7504  | .7513  | .7523  |
| 114.....                    | .7441                                          | .7451  | .7460  | .7470  | .7479  | .7489  | .7498  | .7508  | .7517  | .7527  |
| 115.....                    | .7445                                          | .7455  | .7464  | .7474  | .7483  | .7493  | .7502  | .7512  | .7521  | .7531  |
| 116.....                    | .7449                                          | .7459  | .7468  | .7478  | .7487  | .7497  | .7507  | .7516  | .7526  | .7535  |
| 117.....                    | .7454                                          | .7464  | .7473  | .7483  | .7492  | .7502  | .7511  | .7521  | .7530  | .7540  |
| 118.....                    | .7459                                          | .7468  | .7478  | .7487  | .7497  | .7506  | .7515  | .7525  | .7534  | .7544  |
| 119.....                    | .7463                                          | .7472  | .7482  | .7491  | .7501  | .7510  | .7519  | .7529  | .7538  | .7548  |
| 120.....                    | .7467                                          | .7476  | .7486  | .7495  | .7505  | .7514  | .7523  | .7533  | .7542  | .7552  |
| 121.....                    | .7471                                          | .7480  | .7490  | .7499  | .7509  | .7518  | .7527  | .7537  | .7546  | .7556  |
| 122.....                    | .7475                                          | .7484  | .7494  | .7503  | .7513  | .7522  | .7531  | .7541  | .7550  | .7560  |
| 123.....                    | .7479                                          | .7488  | .7498  | .7507  | .7517  | .7526  | .7535  | .7545  | .7554  | .7564  |
| 124.....                    | .7483                                          | .7492  | .7502  | .7511  | .7521  | .7530  | .7539  | .7549  | .7558  | .7568  |
| 125.....                    | .7487                                          | .7496  | .7505  | .7515  | .7525  | .7534  | .7543  | .7553  | .7562  | .7572  |
| 126.....                    | .7491                                          | .7500  | .7510  | .7519  | .7529  | .7538  | .7547  | .7557  | .7566  | .7576  |
| 127.....                    | .7496                                          | .7505  | .7515  | .7524  | .7533  | .7543  | .7552  | .7561  | .7571  | .7580  |
| 128.....                    | .7500                                          | .7509  | .7519  | .7528  | .7537  | .7547  | .7556  | .7565  | .7575  | .7584  |
| 129.....                    | .7504                                          | .7513  | .7523  | .7532  | .7541  | .7551  | .7560  | .7569  | .7579  | .7588  |
| 130.....                    | .7508                                          | .7517  | .7527  | .7536  | .7545  | .7555  | .7564  | .7573  | .7583  | .7592  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.730                                          | 0.731  | 0.732  | 0.733  | 0.734  | 0.735  | 0.736  | 0.737  | 0.738  | 0.739  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.7016                                         | 0.7026 | 0.7037 | 0.7047 | 0.7057 | 0.7068 | 0.7078 | 0.7089 | 0.7099 | 0.7110 |
| 1.....                      | .7021                                          | .7031  | .7042  | .7052  | .7062  | .7073  | .7083  | .7094  | .7104  | .7115  |
| 2.....                      | .7026                                          | .7036  | .7047  | .7057  | .7067  | .7078  | .7088  | .7099  | .7109  | .7120  |
| 3.....                      | .7031                                          | .7041  | .7052  | .7062  | .7072  | .7083  | .7093  | .7104  | .7114  | .7125  |
| 4.....                      | .7036                                          | .7046  | .7057  | .7067  | .7077  | .7088  | .7098  | .7109  | .7119  | .7130  |
| 5.....                      | .7040                                          | .7050  | .7061  | .7071  | .7082  | .7092  | .7102  | .7113  | .7123  | .7134  |
| 6.....                      | .7045                                          | .7055  | .7066  | .7076  | .7087  | .7097  | .7107  | .7118  | .7128  | .7139  |
| 7.....                      | .7050                                          | .7060  | .7071  | .7081  | .7092  | .7102  | .7112  | .7123  | .7133  | .7144  |
| 8.....                      | .7055                                          | .7065  | .7076  | .7086  | .7097  | .7107  | .7117  | .7128  | .7138  | .7149  |
| 9.....                      | .7060                                          | .7070  | .7081  | .7091  | .7102  | .7112  | .7122  | .7133  | .7143  | .7154  |
| 10.....                     | .7065                                          | .7075  | .7086  | .7096  | .7107  | .7117  | .7127  | .7138  | .7148  | .7159  |
| 11.....                     | .7070                                          | .7080  | .7091  | .7101  | .7112  | .7122  | .7132  | .7143  | .7153  | .7164  |
| 12.....                     | .7075                                          | .7085  | .7096  | .7106  | .7117  | .7127  | .7137  | .7148  | .7158  | .7169  |
| 13.....                     | .7079                                          | .7089  | .7100  | .7110  | .7121  | .7131  | .7141  | .7152  | .7162  | .7173  |
| 14.....                     | .7084                                          | .7094  | .7105  | .7115  | .7125  | .7136  | .7146  | .7156  | .7166  | .7177  |
| 15.....                     | .7089                                          | .7099  | .7110  | .7120  | .7130  | .7141  | .7151  | .7161  | .7171  | .7182  |
| 16.....                     | .7094                                          | .7104  | .7115  | .7125  | .7135  | .7146  | .7156  | .7166  | .7176  | .7187  |
| 17.....                     | .7099                                          | .7109  | .7120  | .7130  | .7140  | .7151  | .7161  | .7171  | .7181  | .7192  |
| 18.....                     | .7104                                          | .7114  | .7125  | .7135  | .7145  | .7156  | .7166  | .7176  | .7186  | .7197  |
| 19.....                     | .7109                                          | .7119  | .7130  | .7140  | .7150  | .7161  | .7171  | .7181  | .7191  | .7202  |
| 20.....                     | .7113                                          | .7123  | .7134  | .7144  | .7154  | .7165  | .7175  | .7185  | .7195  | .7206  |
| 21.....                     | .7118                                          | .7128  | .7139  | .7149  | .7159  | .7170  | .7180  | .7190  | .7200  | .7211  |
| 22.....                     | .7123                                          | .7133  | .7144  | .7154  | .7164  | .7175  | .7185  | .7195  | .7205  | .7216  |
| 23.....                     | .7127                                          | .7137  | .7148  | .7158  | .7168  | .7179  | .7189  | .7199  | .7209  | .7220  |
| 24.....                     | .7132                                          | .7142  | .7153  | .7163  | .7173  | .7184  | .7194  | .7204  | .7214  | .7225  |
| 25.....                     | .7137                                          | .7147  | .7158  | .7168  | .7178  | .7189  | .7199  | .7209  | .7219  | .7230  |
| 26.....                     | .7142                                          | .7152  | .7163  | .7173  | .7183  | .7194  | .7204  | .7214  | .7224  | .7235  |
| 27.....                     | .7147                                          | .7157  | .7167  | .7178  | .7188  | .7198  | .7208  | .7218  | .7229  | .7239  |
| 28.....                     | .7152                                          | .7162  | .7172  | .7183  | .7193  | .7203  | .7213  | .7223  | .7234  | .7244  |
| 29.....                     | .7157                                          | .7167  | .7177  | .7188  | .7198  | .7208  | .7218  | .7228  | .7239  | .7249  |
| 30.....                     | .7161                                          | .7171  | .7181  | .7192  | .7202  | .7212  | .7222  | .7232  | .7243  | .7253  |
| 31.....                     | .7166                                          | .7176  | .7186  | .7197  | .7207  | .7217  | .7227  | .7237  | .7248  | .7258  |
| 32.....                     | .7170                                          | .7180  | .7190  | .7201  | .7211  | .7221  | .7231  | .7241  | .7252  | .7262  |
| 33.....                     | .7175                                          | .7185  | .7195  | .7206  | .7216  | .7226  | .7236  | .7246  | .7257  | .7267  |
| 34.....                     | .7180                                          | .7190  | .7200  | .7211  | .7221  | .7231  | .7241  | .7251  | .7262  | .7272  |
| 35.....                     | .7185                                          | .7195  | .7205  | .7216  | .7226  | .7236  | .7246  | .7256  | .7267  | .7277  |
| 36.....                     | .7190                                          | .7200  | .7210  | .7220  | .7230  | .7241  | .7251  | .7261  | .7271  | .7281  |
| 37.....                     | .7194                                          | .7204  | .7214  | .7224  | .7234  | .7245  | .7255  | .7265  | .7275  | .7285  |
| 38.....                     | .7199                                          | .7209  | .7219  | .7229  | .7239  | .7250  | .7260  | .7270  | .7280  | .7290  |
| 39.....                     | .7203                                          | .7213  | .7223  | .7234  | .7244  | .7254  | .7264  | .7274  | .7285  | .7295  |
| 40.....                     | .7208                                          | .7218  | .7228  | .7238  | .7248  | .7259  | .7269  | .7279  | .7289  | .7299  |
| 41.....                     | .7212                                          | .7222  | .7232  | .7243  | .7253  | .7263  | .7273  | .7283  | .7294  | .7304  |
| 42.....                     | .7217                                          | .7227  | .7237  | .7247  | .7257  | .7268  | .7278  | .7288  | .7298  | .7308  |
| 43.....                     | .7221                                          | .7231  | .7241  | .7252  | .7262  | .7272  | .7282  | .7292  | .7303  | .7313  |
| 44.....                     | .7226                                          | .7236  | .7246  | .7257  | .7267  | .7277  | .7287  | .7297  | .7308  | .7318  |
| 45.....                     | .7231                                          | .7241  | .7251  | .7261  | .7271  | .7282  | .7292  | .7302  | .7312  | .7322  |
| 46.....                     | .7236                                          | .7246  | .7256  | .7266  | .7276  | .7287  | .7297  | .7307  | .7317  | .7327  |
| 47.....                     | .7241                                          | .7251  | .7261  | .7271  | .7281  | .7292  | .7302  | .7312  | .7322  | .7332  |
| 48.....                     | .7246                                          | .7256  | .7266  | .7276  | .7286  | .7297  | .7307  | .7317  | .7327  | .7337  |
| 49.....                     | .7250                                          | .7260  | .7270  | .7280  | .7290  | .7301  | .7311  | .7321  | .7331  | .7341  |
| 50.....                     | .7254                                          | .7264  | .7274  | .7284  | .7294  | .7305  | .7315  | .7325  | .7335  | .7345  |
| 51.....                     | .7259                                          | .7269  | .7279  | .7289  | .7299  | .7309  | .7319  | .7329  | .7339  | .7349  |
| 52.....                     | .7264                                          | .7274  | .7284  | .7294  | .7304  | .7314  | .7324  | .7334  | .7344  | .7354  |
| 53.....                     | .7268                                          | .7278  | .7288  | .7298  | .7308  | .7319  | .7329  | .7339  | .7349  | .7359  |
| 54.....                     | .7273                                          | .7283  | .7293  | .7303  | .7313  | .7324  | .7334  | .7344  | .7354  | .7364  |
| 55.....                     | .7277                                          | .7287  | .7297  | .7307  | .7317  | .7328  | .7338  | .7348  | .7358  | .7368  |
| 56.....                     | .7282                                          | .7292  | .7302  | .7312  | .7322  | .7333  | .7343  | .7353  | .7363  | .7373  |
| 57.....                     | .7286                                          | .7296  | .7306  | .7316  | .7326  | .7337  | .7347  | .7357  | .7367  | .7377  |
| 58.....                     | .7290                                          | .7300  | .7310  | .7320  | .7330  | .7341  | .7351  | .7361  | .7371  | .7381  |
| 59.....                     | .7295                                          | .7305  | .7315  | .7325  | .7335  | .7346  | .7356  | .7366  | .7376  | .7386  |
| 60.....                     | .7300                                          | .7310  | .7320  | .7330  | .7340  | .7350  | .7360  | .7370  | .7380  | .7390  |
| 61.....                     | .7304                                          | .7314  | .7324  | .7334  | .7344  | .7354  | .7364  | .7374  | .7384  | .7394  |
| 62.....                     | .7309                                          | .7319  | .7329  | .7339  | .7349  | .7359  | .7369  | .7379  | .7389  | .7399  |
| 63.....                     | .7314                                          | .7324  | .7334  | .7344  | .7354  | .7364  | .7374  | .7384  | .7394  | .7404  |
| 64.....                     | .7319                                          | .7329  | .7339  | .7349  | .7359  | .7368  | .7378  | .7388  | .7398  | .7408  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.730                                          | 0.731  | 0.732  | 0.733  | 0.734  | 0.735  | 0.736  | 0.737  | 0.738  | 0.739  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                     | 0.7323                                         | 0.7333 | 0.7343 | 0.7353 | 0.7363 | 0.7372 | 0.7382 | 0.7392 | 0.7402 | 0.7412 |
| 66.....                     | .7327                                          | .7337  | .7347  | .7357  | .7367  | .7376  | .7386  | .7396  | .7406  | .7416  |
| 67.....                     | .7332                                          | .7342  | .7352  | .7362  | .7372  | .7381  | .7391  | .7401  | .7411  | .7421  |
| 68.....                     | .7336                                          | .7346  | .7356  | .7366  | .7376  | .7385  | .7395  | .7405  | .7415  | .7425  |
| 69.....                     | .7340                                          | .7350  | .7360  | .7370  | .7380  | .7389  | .7399  | .7409  | .7419  | .7429  |
| 70.....                     | .7345                                          | .7355  | .7365  | .7375  | .7385  | .7394  | .7404  | .7414  | .7424  | .7434  |
| 71.....                     | .7350                                          | .7360  | .7370  | .7380  | .7390  | .7399  | .7409  | .7419  | .7429  | .7439  |
| 72.....                     | .7354                                          | .7364  | .7374  | .7384  | .7394  | .7403  | .7413  | .7423  | .7433  | .7443  |
| 73.....                     | .7359                                          | .7369  | .7379  | .7388  | .7398  | .7408  | .7418  | .7428  | .7437  | .7447  |
| 74.....                     | .7363                                          | .7373  | .7383  | .7392  | .7402  | .7412  | .7422  | .7432  | .7441  | .7451  |
| 75.....                     | .7367                                          | .7377  | .7387  | .7397  | .7407  | .7416  | .7426  | .7436  | .7446  | .7456  |
| 76.....                     | .7372                                          | .7382  | .7392  | .7401  | .7411  | .7421  | .7431  | .7441  | .7450  | .7460  |
| 77.....                     | .7377                                          | .7387  | .7397  | .7406  | .7416  | .7426  | .7436  | .7446  | .7455  | .7465  |
| 78.....                     | .7381                                          | .7391  | .7401  | .7410  | .7420  | .7430  | .7440  | .7450  | .7459  | .7469  |
| 79.....                     | .7385                                          | .7395  | .7405  | .7414  | .7424  | .7434  | .7444  | .7454  | .7463  | .7473  |
| 80.....                     | .7389                                          | .7399  | .7409  | .7418  | .7428  | .7438  | .7448  | .7458  | .7467  | .7477  |
| 81.....                     | .7393                                          | .7403  | .7413  | .7423  | .7433  | .7442  | .7452  | .7462  | .7472  | .7482  |
| 82.....                     | .7398                                          | .7408  | .7418  | .7427  | .7437  | .7447  | .7457  | .7467  | .7476  | .7486  |
| 83.....                     | .7402                                          | .7412  | .7422  | .7431  | .7441  | .7451  | .7461  | .7471  | .7480  | .7490  |
| 84.....                     | .7407                                          | .7417  | .7427  | .7436  | .7446  | .7456  | .7466  | .7476  | .7485  | .7495  |
| 85.....                     | .7411                                          | .7421  | .7431  | .7440  | .7450  | .7460  | .7470  | .7480  | .7489  | .7499  |
| 86.....                     | .7416                                          | .7426  | .7436  | .7445  | .7455  | .7465  | .7475  | .7485  | .7494  | .7504  |
| 87.....                     | .7420                                          | .7430  | .7440  | .7449  | .7459  | .7469  | .7479  | .7489  | .7498  | .7508  |
| 88.....                     | .7425                                          | .7435  | .7444  | .7454  | .7464  | .7473  | .7483  | .7493  | .7503  | .7512  |
| 89.....                     | .7429                                          | .7439  | .7449  | .7458  | .7468  | .7478  | .7488  | .7498  | .7507  | .7517  |
| 90.....                     | .7433                                          | .7443  | .7453  | .7462  | .7472  | .7482  | .7492  | .7502  | .7511  | .7521  |
| 91.....                     | .7437                                          | .7447  | .7457  | .7466  | .7476  | .7486  | .7496  | .7506  | .7515  | .7525  |
| 92.....                     | .7442                                          | .7452  | .7461  | .7471  | .7481  | .7490  | .7500  | .7510  | .7520  | .7529  |
| 93.....                     | .7446                                          | .7456  | .7465  | .7475  | .7485  | .7494  | .7504  | .7514  | .7524  | .7533  |
| 94.....                     | .7451                                          | .7461  | .7470  | .7480  | .7490  | .7499  | .7509  | .7519  | .7529  | .7538  |
| 95.....                     | .7456                                          | .7466  | .7475  | .7485  | .7495  | .7504  | .7514  | .7524  | .7534  | .7543  |
| 96.....                     | .7560                                          | .7470  | .7479  | .7489  | .7499  | .7508  | .7518  | .7528  | .7538  | .7547  |
| 97.....                     | .7465                                          | .7475  | .7484  | .7494  | .7503  | .7513  | .7523  | .7532  | .7542  | .7551  |
| 98.....                     | .7469                                          | .7479  | .7488  | .7498  | .7507  | .7517  | .7527  | .7536  | .7546  | .7555  |
| 99.....                     | .7473                                          | .7483  | .7492  | .7502  | .7511  | .7521  | .7531  | .7540  | .7550  | .7559  |
| 100.....                    | .7477                                          | .7487  | .7496  | .7506  | .7516  | .7525  | .7535  | .7545  | .7555  | .7564  |
| 101.....                    | .7481                                          | .7491  | .7500  | .7510  | .7520  | .7529  | .7539  | .7549  | .7559  | .7568  |
| 102.....                    | .7485                                          | .7495  | .7504  | .7514  | .7524  | .7533  | .7543  | .7553  | .7563  | .7572  |
| 103.....                    | .7490                                          | .7500  | .7509  | .7519  | .7528  | .7538  | .7548  | .7557  | .7567  | .7576  |
| 104.....                    | .7494                                          | .7504  | .7513  | .7523  | .7532  | .7542  | .7552  | .7561  | .7571  | .7580  |
| 105.....                    | .7499                                          | .7509  | .7518  | .7528  | .7537  | .7547  | .7556  | .7566  | .7575  | .7585  |
| 106.....                    | .7503                                          | .7513  | .7522  | .7532  | .7541  | .7551  | .7560  | .7570  | .7579  | .7589  |
| 107.....                    | .7507                                          | .7517  | .7526  | .7536  | .7545  | .7555  | .7564  | .7574  | .7583  | .7593  |
| 108.....                    | .7511                                          | .7521  | .7530  | .7540  | .7549  | .7559  | .7568  | .7578  | .7587  | .7597  |
| 109.....                    | .7515                                          | .7525  | .7534  | .7544  | .7553  | .7563  | .7572  | .7582  | .7591  | .7601  |
| 110.....                    | .7519                                          | .7529  | .7538  | .7548  | .7557  | .7567  | .7577  | .7586  | .7596  | .7605  |
| 111.....                    | .7524                                          | .7534  | .7543  | .7553  | .7562  | .7572  | .7581  | .7591  | .7600  | .7610  |
| 112.....                    | .7528                                          | .7538  | .7547  | .7557  | .7566  | .7576  | .7585  | .7595  | .7604  | .7614  |
| 113.....                    | .7532                                          | .7542  | .7551  | .7561  | .7570  | .7580  | .7589  | .7599  | .7608  | .7618  |
| 114.....                    | .7536                                          | .7546  | .7555  | .7565  | .7574  | .7584  | .7593  | .7603  | .7612  | .7622  |
| 115.....                    | .7540                                          | .7550  | .7559  | .7569  | .7578  | .7588  | .7597  | .7607  | .7616  | .7626  |
| 116.....                    | .7545                                          | .7554  | .7564  | .7573  | .7583  | .7592  | .7601  | .7611  | .7620  | .7630  |
| 117.....                    | .7549                                          | .7558  | .7568  | .7577  | .7587  | .7596  | .7605  | .7615  | .7624  | .7634  |
| 118.....                    | .7553                                          | .7562  | .7572  | .7581  | .7591  | .7600  | .7609  | .7619  | .7628  | .7638  |
| 119.....                    | .7557                                          | .7566  | .7576  | .7585  | .7595  | .7604  | .7613  | .7623  | .7632  | .7642  |
| 120.....                    | .7561                                          | .7570  | .7580  | .7589  | .7599  | .7608  | .7617  | .7627  | .7636  | .7646  |
| 121.....                    | .7565                                          | .7574  | .7584  | .7593  | .7603  | .7612  | .7621  | .7631  | .7640  | .7650  |
| 122.....                    | .7569                                          | .7578  | .7588  | .7597  | .7607  | .7616  | .7625  | .7635  | .7644  | .7654  |
| 123.....                    | .7573                                          | .7582  | .7592  | .7601  | .7611  | .7620  | .7629  | .7639  | .7648  | .7658  |
| 124.....                    | .7577                                          | .7586  | .7596  | .7605  | .7615  | .7624  | .7633  | .7643  | .7652  | .7662  |
| 125.....                    | .7581                                          | .7590  | .7600  | .7609  | .7619  | .7628  | .7637  | .7647  | .7656  | .7666  |
| 126.....                    | .7585                                          | .7594  | .7604  | .7613  | .7623  | .7632  | .7641  | .7651  | .7660  | .7670  |
| 127.....                    | .7589                                          | .7598  | .7608  | .7617  | .7627  | .7636  | .7645  | .7655  | .7664  | .7674  |
| 128.....                    | .7593                                          | .7602  | .7612  | .7621  | .7631  | .7640  | .7649  | .7659  | .7668  | .7678  |
| 129.....                    | .7597                                          | .7606  | .7616  | .7625  | .7635  | .7644  | .7653  | .7663  | .7672  | .7682  |
| 130.....                    | .7601                                          | .7611  | .7620  | .7629  | .7639  | .7648  | .7657  | .7667  | .7676  | .7686  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.740                                          | 0.741  | 0.742  | 0.743  | 0.744  | 0.745  | 0.746  | 0.747  | 0.748  | 0.749  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.7120                                         | 0.7130 | 0.7141 | 0.7151 | 0.7161 | 0.7172 | 0.7182 | 0.7193 | 0.7203 | 0.7214 |
| 1.....                      | .7125                                          | .7135  | .7146  | .7156  | .7166  | .7177  | .7187  | .7198  | .7208  | .7219  |
| 2.....                      | .7130                                          | .7140  | .7151  | .7161  | .7172  | .7182  | .7192  | .7203  | .7213  | .7224  |
| 3.....                      | .7135                                          | .7145  | .7156  | .7166  | .7177  | .7187  | .7197  | .7208  | .7218  | .7229  |
| 4.....                      | .7140                                          | .7150  | .7161  | .7171  | .7182  | .7192  | .7202  | .7213  | .7223  | .7234  |
| 5.....                      | .7144                                          | .7154  | .7165  | .7175  | .7186  | .7196  | .7206  | .7217  | .7227  | .7238  |
| 6.....                      | .7149                                          | .7159  | .7170  | .7180  | .7191  | .7201  | .7211  | .7222  | .7232  | .7243  |
| 7.....                      | .7154                                          | .7164  | .7175  | .7185  | .7196  | .7206  | .7216  | .7227  | .7237  | .7248  |
| 8.....                      | .7159                                          | .7169  | .7180  | .7190  | .7201  | .7211  | .7221  | .7232  | .7242  | .7253  |
| 9.....                      | .7164                                          | .7174  | .7185  | .7195  | .7205  | .7216  | .7226  | .7236  | .7247  | .7257  |
| 10.....                     | .7169                                          | .7179  | .7190  | .7200  | .7210  | .7221  | .7231  | .7241  | .7251  | .7262  |
| 11.....                     | .7174                                          | .7184  | .7195  | .7205  | .7215  | .7226  | .7236  | .7246  | .7256  | .7267  |
| 12.....                     | .7179                                          | .7189  | .7200  | .7210  | .7220  | .7231  | .7241  | .7251  | .7261  | .7272  |
| 13.....                     | .7183                                          | .7193  | .7204  | .7214  | .7224  | .7235  | .7245  | .7255  | .7266  | .7276  |
| 14.....                     | .7187                                          | .7197  | .7208  | .7218  | .7228  | .7239  | .7249  | .7259  | .7270  | .7280  |
| 15.....                     | .7192                                          | .7202  | .7213  | .7223  | .7233  | .7244  | .7254  | .7264  | .7274  | .7285  |
| 16.....                     | .7197                                          | .7207  | .7218  | .7228  | .7238  | .7249  | .7259  | .7269  | .7279  | .7290  |
| 17.....                     | .7202                                          | .7212  | .7223  | .7233  | .7243  | .7254  | .7264  | .7274  | .7284  | .7295  |
| 18.....                     | .7207                                          | .7217  | .7228  | .7238  | .7248  | .7259  | .7269  | .7279  | .7289  | .7300  |
| 19.....                     | .7212                                          | .7222  | .7233  | .7243  | .7253  | .7264  | .7274  | .7284  | .7294  | .7305  |
| 20.....                     | .7216                                          | .7226  | .7237  | .7247  | .7257  | .7268  | .7278  | .7288  | .7298  | .7309  |
| 21.....                     | .7221                                          | .7231  | .7242  | .7252  | .7262  | .7273  | .7283  | .7293  | .7303  | .7314  |
| 22.....                     | .7226                                          | .7236  | .7247  | .7257  | .7267  | .7278  | .7288  | .7298  | .7308  | .7319  |
| 23.....                     | .7230                                          | .7240  | .7251  | .7261  | .7271  | .7282  | .7292  | .7302  | .7313  | .7323  |
| 24.....                     | .7235                                          | .7245  | .7256  | .7266  | .7276  | .7287  | .7297  | .7307  | .7317  | .7328  |
| 25.....                     | .7240                                          | .7250  | .7260  | .7271  | .7281  | .7291  | .7301  | .7311  | .7322  | .7332  |
| 26.....                     | .7245                                          | .7255  | .7265  | .7276  | .7286  | .7296  | .7306  | .7316  | .7327  | .7337  |
| 27.....                     | .7249                                          | .7259  | .7269  | .7280  | .7290  | .7300  | .7310  | .7320  | .7331  | .7341  |
| 28.....                     | .7254                                          | .7264  | .7274  | .7285  | .7295  | .7305  | .7315  | .7325  | .7336  | .7346  |
| 29.....                     | .7259                                          | .7269  | .7279  | .7290  | .7300  | .7310  | .7320  | .7330  | .7341  | .7351  |
| 30.....                     | .7263                                          | .7273  | .7283  | .7294  | .7304  | .7314  | .7324  | .7334  | .7345  | .7355  |
| 31.....                     | .7268                                          | .7278  | .7288  | .7299  | .7309  | .7319  | .7329  | .7339  | .7350  | .7360  |
| 32.....                     | .7272                                          | .7282  | .7292  | .7303  | .7313  | .7323  | .7333  | .7343  | .7354  | .7364  |
| 33.....                     | .7277                                          | .7287  | .7297  | .7308  | .7318  | .7328  | .7338  | .7348  | .7359  | .7369  |
| 34.....                     | .7282                                          | .7292  | .7302  | .7313  | .7323  | .7333  | .7343  | .7353  | .7364  | .7374  |
| 35.....                     | .7287                                          | .7297  | .7307  | .7318  | .7328  | .7338  | .7348  | .7358  | .7369  | .7379  |
| 36.....                     | .7291                                          | .7301  | .7311  | .7322  | .7332  | .7342  | .7352  | .7362  | .7373  | .7383  |
| 37.....                     | .7295                                          | .7305  | .7315  | .7326  | .7336  | .7346  | .7356  | .7366  | .7377  | .7387  |
| 38.....                     | .7300                                          | .7310  | .7320  | .7331  | .7341  | .7351  | .7361  | .7371  | .7382  | .7392  |
| 39.....                     | .7305                                          | .7315  | .7325  | .7335  | .7345  | .7356  | .7366  | .7376  | .7386  | .7396  |
| 40.....                     | .7309                                          | .7319  | .7329  | .7340  | .7350  | .7360  | .7370  | .7380  | .7391  | .7401  |
| 41.....                     | .7314                                          | .7324  | .7334  | .7344  | .7354  | .7365  | .7375  | .7385  | .7395  | .7405  |
| 42.....                     | .7318                                          | .7328  | .7338  | .7349  | .7359  | .7369  | .7379  | .7389  | .7400  | .7410  |
| 43.....                     | .7323                                          | .7333  | .7343  | .7354  | .7364  | .7374  | .7384  | .7394  | .7405  | .7415  |
| 44.....                     | .7328                                          | .7338  | .7348  | .7358  | .7368  | .7379  | .7389  | .7399  | .7409  | .7419  |
| 45.....                     | .7332                                          | .7342  | .7352  | .7363  | .7373  | .7383  | .7393  | .7403  | .7414  | .7424  |
| 46.....                     | .7337                                          | .7347  | .7357  | .7367  | .7377  | .7388  | .7398  | .7408  | .7418  | .7428  |
| 47.....                     | .7342                                          | .7352  | .7362  | .7372  | .7382  | .7393  | .7403  | .7413  | .7423  | .7433  |
| 48.....                     | .7347                                          | .7357  | .7367  | .7377  | .7387  | .7398  | .7408  | .7418  | .7428  | .7438  |
| 49.....                     | .7351                                          | .7361  | .7371  | .7381  | .7391  | .7402  | .7412  | .7422  | .7432  | .7442  |
| 50.....                     | .7355                                          | .7365  | .7375  | .7385  | .7395  | .7406  | .7416  | .7426  | .7436  | .7446  |
| 51.....                     | .7359                                          | .7369  | .7379  | .7389  | .7399  | .7410  | .7420  | .7430  | .7440  | .7450  |
| 52.....                     | .7364                                          | .7374  | .7384  | .7394  | .7404  | .7415  | .7425  | .7435  | .7445  | .7455  |
| 53.....                     | .7369                                          | .7379  | .7389  | .7399  | .7409  | .7420  | .7430  | .7440  | .7450  | .7460  |
| 54.....                     | .7374                                          | .7384  | .7394  | .7404  | .7414  | .7425  | .7435  | .7445  | .7455  | .7465  |
| 55.....                     | .7378                                          | .7388  | .7398  | .7408  | .7418  | .7429  | .7439  | .7449  | .7459  | .7469  |
| 56.....                     | .7383                                          | .7393  | .7403  | .7413  | .7423  | .7433  | .7443  | .7453  | .7463  | .7473  |
| 57.....                     | .7387                                          | .7397  | .7407  | .7417  | .7427  | .7437  | .7447  | .7457  | .7467  | .7477  |
| 58.....                     | .7391                                          | .7401  | .7411  | .7421  | .7431  | .7441  | .7451  | .7461  | .7471  | .7481  |
| 59.....                     | .7396                                          | .7406  | .7416  | .7426  | .7436  | .7446  | .7456  | .7466  | .7476  | .7486  |
| 60.....                     | .7400                                          | .7410  | .7420  | .7430  | .7440  | .7450  | .7460  | .7470  | .7480  | .7490  |
| 61.....                     | .7404                                          | .7414  | .7424  | .7434  | .7444  | .7454  | .7464  | .7474  | .7484  | .7494  |
| 62.....                     | .7409                                          | .7419  | .7429  | .7439  | .7449  | .7459  | .7469  | .7479  | .7489  | .7499  |
| 63.....                     | .7414                                          | .7424  | .7434  | .7444  | .7454  | .7464  | .7474  | .7484  | .7494  | .7504  |
| 64.....                     | .7418                                          | .7428  | .7438  | .7448  | .7458  | .7468  | .7478  | .7488  | .7498  | .7508  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.740                                          | 0.741  | 0.742  | 0.743  | 0.744  | 0.745  | 0.746  | 0.747  | 0.748  | 0.749  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                     | 0.7422                                         | 0.7432 | 0.7442 | 0.7452 | 0.7462 | 0.7472 | 0.7482 | 0.7492 | 0.7502 | 0.7512 |
| 66.....                     | .7426                                          | .7436  | .7446  | .7456  | .7466  | .7476  | .7486  | .7496  | .7506  | .7516  |
| 67.....                     | .7431                                          | .7441  | .7451  | .7461  | .7471  | .7481  | .7491  | .7501  | .7511  | .7521  |
| 68.....                     | .7435                                          | .7445  | .7455  | .7465  | .7475  | .7485  | .7495  | .7505  | .7515  | .7525  |
| 69.....                     | .7439                                          | .7449  | .7459  | .7469  | .7479  | .7489  | .7499  | .7509  | .7519  | .7529  |
| 70.....                     | .7444                                          | .7454  | .7464  | .7474  | .7484  | .7493  | .7503  | .7513  | .7523  | .7533  |
| 71.....                     | .7449                                          | .7459  | .7469  | .7479  | .7489  | .7498  | .7508  | .7518  | .7528  | .7538  |
| 72.....                     | .7453                                          | .7463  | .7473  | .7483  | .7493  | .7502  | .7512  | .7522  | .7532  | .7542  |
| 73.....                     | .7457                                          | .7467  | .7477  | .7487  | .7497  | .7506  | .7516  | .7526  | .7536  | .7546  |
| 74.....                     | .7461                                          | .7471  | .7481  | .7491  | .7501  | .7510  | .7520  | .7530  | .7540  | .7550  |
| 75.....                     | .7466                                          | .7476  | .7486  | .7496  | .7506  | .7515  | .7525  | .7535  | .7545  | .7555  |
| 76.....                     | .7470                                          | .7480  | .7490  | .7500  | .7510  | .7519  | .7529  | .7539  | .7549  | .7559  |
| 77.....                     | .7475                                          | .7485  | .7495  | .7505  | .7515  | .7524  | .7534  | .7544  | .7554  | .7564  |
| 78.....                     | .7479                                          | .7489  | .7499  | .7509  | .7519  | .7528  | .7538  | .7548  | .7558  | .7568  |
| 79.....                     | .7483                                          | .7493  | .7503  | .7513  | .7523  | .7532  | .7542  | .7552  | .7562  | .7572  |
| 80.....                     | .7487                                          | .7497  | .7507  | .7517  | .7527  | .7536  | .7546  | .7556  | .7566  | .7576  |
| 81.....                     | .7492                                          | .7502  | .7512  | .7521  | .7531  | .7541  | .7551  | .7561  | .7570  | .7580  |
| 82.....                     | .7496                                          | .7506  | .7516  | .7525  | .7535  | .7545  | .7555  | .7565  | .7574  | .7584  |
| 83.....                     | .7500                                          | .7510  | .7520  | .7529  | .7539  | .7549  | .7559  | .7569  | .7578  | .7588  |
| 84.....                     | .7505                                          | .7515  | .7525  | .7534  | .7544  | .7554  | .7564  | .7574  | .7583  | .7593  |
| 85.....                     | .7509                                          | .7519  | .7529  | .7538  | .7548  | .7558  | .7568  | .7578  | .7587  | .7597  |
| 86.....                     | .7514                                          | .7524  | .7534  | .7543  | .7553  | .7563  | .7573  | .7583  | .7592  | .7602  |
| 87.....                     | .7518                                          | .7528  | .7538  | .7547  | .7557  | .7567  | .7577  | .7587  | .7596  | .7606  |
| 88.....                     | .7522                                          | .7532  | .7542  | .7551  | .7561  | .7571  | .7581  | .7591  | .7600  | .7610  |
| 89.....                     | .7527                                          | .7537  | .7546  | .7556  | .7566  | .7575  | .7585  | .7595  | .7605  | .7614  |
| 90.....                     | .7531                                          | .7541  | .7550  | .7560  | .7570  | .7579  | .7589  | .7599  | .7609  | .7618  |
| 91.....                     | .7535                                          | .7545  | .7554  | .7564  | .7574  | .7583  | .7593  | .7603  | .7613  | .7622  |
| 92.....                     | .7539                                          | .7549  | .7558  | .7568  | .7578  | .7587  | .7597  | .7607  | .7617  | .7626  |
| 93.....                     | .7543                                          | .7553  | .7562  | .7572  | .7582  | .7591  | .7601  | .7611  | .7621  | .7630  |
| 94.....                     | .7548                                          | .7558  | .7567  | .7577  | .7587  | .7596  | .7606  | .7616  | .7626  | .7635  |
| 95.....                     | .7553                                          | .7563  | .7572  | .7582  | .7591  | .7601  | .7611  | .7620  | .7630  | .7639  |
| 96.....                     | .7557                                          | .7567  | .7576  | .7586  | .7595  | .7605  | .7615  | .7624  | .7634  | .7643  |
| 97.....                     | .7561                                          | .7571  | .7580  | .7590  | .7599  | .7609  | .7619  | .7628  | .7638  | .7647  |
| 98.....                     | .7565                                          | .7575  | .7584  | .7594  | .7604  | .7613  | .7623  | .7633  | .7643  | .7652  |
| 99.....                     | .7569                                          | .7579  | .7588  | .7598  | .7608  | .7617  | .7627  | .7637  | .7647  | .7656  |
| 100.....                    | .7574                                          | .7584  | .7593  | .7603  | .7612  | .7622  | .7632  | .7641  | .7651  | .7660  |
| 101.....                    | .7578                                          | .7588  | .7597  | .7607  | .7616  | .7626  | .7636  | .7645  | .7655  | .7664  |
| 102.....                    | .7582                                          | .7592  | .7601  | .7611  | .7620  | .7630  | .7640  | .7649  | .7659  | .7668  |
| 103.....                    | .7586                                          | .7596  | .7605  | .7615  | .7624  | .7634  | .7644  | .7653  | .7663  | .7672  |
| 104.....                    | .7590                                          | .7600  | .7609  | .7619  | .7628  | .7638  | .7648  | .7657  | .7667  | .7676  |
| 105.....                    | .7594                                          | .7604  | .7613  | .7623  | .7632  | .7642  | .7652  | .7661  | .7671  | .7680  |
| 106.....                    | .7598                                          | .7608  | .7617  | .7627  | .7636  | .7646  | .7656  | .7665  | .7675  | .7684  |
| 107.....                    | .7602                                          | .7612  | .7621  | .7631  | .7640  | .7650  | .7660  | .7669  | .7679  | .7688  |
| 108.....                    | .7606                                          | .7616  | .7625  | .7635  | .7644  | .7654  | .7664  | .7673  | .7683  | .7692  |
| 109.....                    | .7610                                          | .7620  | .7629  | .7639  | .7648  | .7658  | .7668  | .7677  | .7687  | .7696  |
| 110.....                    | .7615                                          | .7625  | .7634  | .7644  | .7653  | .7663  | .7672  | .7682  | .7691  | .7701  |
| 111.....                    | .7619                                          | .7629  | .7638  | .7648  | .7657  | .7667  | .7676  | .7686  | .7695  | .7705  |
| 112.....                    | .7623                                          | .7633  | .7642  | .7652  | .7661  | .7671  | .7680  | .7690  | .7699  | .7709  |
| 113.....                    | .7627                                          | .7636  | .7646  | .7655  | .7665  | .7674  | .7683  | .7693  | .7702  | .7712  |
| 114.....                    | .7631                                          | .7640  | .7650  | .7659  | .7669  | .7678  | .7687  | .7697  | .7706  | .7716  |
| 115.....                    | .7635                                          | .7644  | .7654  | .7663  | .7673  | .7682  | .7691  | .7701  | .7710  | .7720  |
| 116.....                    | .7639                                          | .7648  | .7658  | .7667  | .7677  | .7686  | .7695  | .7705  | .7714  | .7724  |
| 117.....                    | .7643                                          | .7652  | .7662  | .7671  | .7681  | .7690  | .7699  | .7709  | .7718  | .7728  |
| 118.....                    | .7647                                          | .7656  | .7666  | .7675  | .7685  | .7694  | .7703  | .7713  | .7722  | .7732  |
| 119.....                    | .7651                                          | .7660  | .7670  | .7679  | .7689  | .7698  | .7707  | .7717  | .7726  | .7736  |
| 120.....                    | .7655                                          | .7664  | .7674  | .7683  | .7693  | .7702  | .7711  | .7721  | .7730  | .7740  |
| 121.....                    | .7659                                          | .7668  | .7678  | .7687  | .7697  | .7706  | .7715  | .7725  | .7734  | .7744  |
| 122.....                    | .7663                                          | .7672  | .7682  | .7691  | .7701  | .7710  | .7719  | .7729  | .7738  | .7748  |
| 123.....                    | .7667                                          | .7676  | .7686  | .7695  | .7705  | .7714  | .7723  | .7733  | .7742  | .7752  |
| 124.....                    | .7671                                          | .7680  | .7690  | .7699  | .7709  | .7718  | .7727  | .7737  | .7746  | .7756  |
| 125.....                    | .7675                                          | .7684  | .7694  | .7703  | .7713  | .7722  | .7731  | .7741  | .7750  | .7760  |
| 126.....                    | .7679                                          | .7688  | .7698  | .7707  | .7717  | .7726  | .7735  | .7745  | .7754  | .7764  |
| 127.....                    | .7683                                          | .7692  | .7702  | .7711  | .7721  | .7730  | .7739  | .7749  | .7758  | .7768  |
| 128.....                    | .7687                                          | .7696  | .7706  | .7715  | .7725  | .7734  | .7743  | .7753  | .7762  | .7772  |
| 129.....                    | .7691                                          | .7700  | .7710  | .7719  | .7729  | .7738  | .7747  | .7757  | .7766  | .7776  |
| 130.....                    | .7695                                          | .7704  | .7714  | .7723  | .7733  | .7742  | .7751  | .7761  | .7770  | .7780  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.750                                          | 0.751  | 0.752  | 0.753  | 0.754  | 0.755  | 0.756  | 0.757  | 0.758  | 0.759  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.7224                                         | 0.7234 | 0.7245 | 0.7255 | 0.7266 | 0.7276 | 0.7286 | 0.7297 | 0.7307 | 0.7318 |
| 1.....                      | .7229                                          | .7239  | .7250  | .7260  | .7271  | .7281  | .7291  | .7302  | .7312  | .7323  |
| 2.....                      | .7234                                          | .7244  | .7255  | .7265  | .7276  | .7286  | .7296  | .7307  | .7317  | .7328  |
| 3.....                      | .7239                                          | .7249  | .7260  | .7270  | .7280  | .7291  | .7301  | .7312  | .7322  | .7333  |
| 4.....                      | .7244                                          | .7254  | .7265  | .7275  | .7285  | .7296  | .7306  | .7317  | .7327  | .7338  |
| 5.....                      | .7248                                          | .7258  | .7269  | .7279  | .7289  | .7300  | .7310  | .7321  | .7331  | .7342  |
| 6.....                      | .7253                                          | .7263  | .7274  | .7284  | .7295  | .7305  | .7315  | .7326  | .7336  | .7347  |
| 7.....                      | .7258                                          | .7268  | .7279  | .7289  | .7300  | .7310  | .7320  | .7331  | .7341  | .7352  |
| 8.....                      | .7263                                          | .7273  | .7284  | .7294  | .7305  | .7315  | .7325  | .7336  | .7346  | .7357  |
| 9.....                      | .7267                                          | .7277  | .7288  | .7298  | .7309  | .7319  | .7329  | .7340  | .7350  | .7361  |
| 10.....                     | .7272                                          | .7282  | .7293  | .7303  | .7314  | .7324  | .7334  | .7345  | .7355  | .7366  |
| 11.....                     | .7277                                          | .7287  | .7298  | .7308  | .7319  | .7329  | .7339  | .7350  | .7360  | .7371  |
| 12.....                     | .7282                                          | .7292  | .7303  | .7313  | .7323  | .7334  | .7344  | .7354  | .7364  | .7375  |
| 13.....                     | .7286                                          | .7296  | .7307  | .7317  | .7328  | .7338  | .7348  | .7359  | .7369  | .7380  |
| 14.....                     | .7290                                          | .7300  | .7311  | .7321  | .7332  | .7342  | .7352  | .7363  | .7373  | .7384  |
| 15.....                     | .7295                                          | .7305  | .7316  | .7326  | .7337  | .7347  | .7357  | .7368  | .7378  | .7389  |
| 16.....                     | .7300                                          | .7310  | .7321  | .7331  | .7342  | .7352  | .7362  | .7373  | .7383  | .7394  |
| 17.....                     | .7305                                          | .7315  | .7326  | .7336  | .7347  | .7357  | .7367  | .7378  | .7388  | .7399  |
| 18.....                     | .7310                                          | .7320  | .7331  | .7341  | .7352  | .7362  | .7372  | .7383  | .7393  | .7404  |
| 19.....                     | .7315                                          | .7325  | .7336  | .7346  | .7356  | .7367  | .7377  | .7387  | .7397  | .7408  |
| 20.....                     | .7319                                          | .7329  | .7340  | .7350  | .7361  | .7371  | .7381  | .7392  | .7402  | .7413  |
| 21.....                     | .7324                                          | .7334  | .7345  | .7355  | .7365  | .7376  | .7386  | .7396  | .7406  | .7417  |
| 22.....                     | .7329                                          | .7339  | .7350  | .7360  | .7370  | .7381  | .7391  | .7401  | .7411  | .7422  |
| 23.....                     | .7333                                          | .7343  | .7354  | .7364  | .7374  | .7385  | .7395  | .7405  | .7415  | .7426  |
| 24.....                     | .7338                                          | .7348  | .7359  | .7369  | .7379  | .7390  | .7400  | .7410  | .7420  | .7431  |
| 25.....                     | .7342                                          | .7352  | .7363  | .7373  | .7383  | .7394  | .7404  | .7414  | .7424  | .7435  |
| 26.....                     | .7347                                          | .7357  | .7368  | .7378  | .7388  | .7399  | .7409  | .7419  | .7429  | .7440  |
| 27.....                     | .7351                                          | .7361  | .7372  | .7382  | .7392  | .7403  | .7413  | .7423  | .7433  | .7444  |
| 28.....                     | .7356                                          | .7366  | .7377  | .7387  | .7397  | .7408  | .7418  | .7428  | .7438  | .7449  |
| 29.....                     | .7361                                          | .7371  | .7381  | .7392  | .7402  | .7412  | .7422  | .7432  | .7443  | .7453  |
| 30.....                     | .7365                                          | .7375  | .7386  | .7396  | .7407  | .7417  | .7427  | .7437  | .7447  | .7458  |
| 31.....                     | .7370                                          | .7380  | .7390  | .7401  | .7411  | .7421  | .7431  | .7441  | .7452  | .7462  |
| 32.....                     | .7374                                          | .7384  | .7395  | .7405  | .7415  | .7425  | .7436  | .7446  | .7456  | .7467  |
| 33.....                     | .7379                                          | .7389  | .7399  | .7410  | .7420  | .7430  | .7440  | .7450  | .7461  | .7471  |
| 34.....                     | .7384                                          | .7394  | .7404  | .7415  | .7425  | .7435  | .7445  | .7455  | .7466  | .7476  |
| 35.....                     | .7389                                          | .7399  | .7409  | .7420  | .7430  | .7440  | .7450  | .7460  | .7471  | .7481  |
| 36.....                     | .7393                                          | .7403  | .7413  | .7424  | .7434  | .7444  | .7454  | .7464  | .7475  | .7485  |
| 37.....                     | .7397                                          | .7407  | .7417  | .7428  | .7438  | .7448  | .7458  | .7468  | .7479  | .7489  |
| 38.....                     | .7402                                          | .7412  | .7422  | .7433  | .7443  | .7453  | .7463  | .7473  | .7484  | .7494  |
| 39.....                     | .7406                                          | .7416  | .7428  | .7437  | .7447  | .7457  | .7467  | .7477  | .7488  | .7498  |
| 40.....                     | .7411                                          | .7421  | .7431  | .7442  | .7452  | .7462  | .7472  | .7482  | .7493  | .7503  |
| 41.....                     | .7415                                          | .7425  | .7435  | .7446  | .7456  | .7466  | .7476  | .7486  | .7497  | .7507  |
| 42.....                     | .7420                                          | .7430  | .7440  | .7451  | .7461  | .7471  | .7481  | .7491  | .7502  | .7512  |
| 43.....                     | .7425                                          | .7435  | .7445  | .7455  | .7465  | .7476  | .7486  | .7496  | .7506  | .7516  |
| 44.....                     | .7429                                          | .7439  | .7449  | .7460  | .7470  | .7480  | .7490  | .7500  | .7511  | .7521  |
| 45.....                     | .7434                                          | .7444  | .7454  | .7464  | .7474  | .7485  | .7495  | .7505  | .7515  | .7525  |
| 46.....                     | .7438                                          | .7448  | .7458  | .7468  | .7478  | .7489  | .7499  | .7509  | .7519  | .7529  |
| 47.....                     | .7443                                          | .7453  | .7463  | .7473  | .7483  | .7494  | .7504  | .7514  | .7524  | .7534  |
| 48.....                     | .7448                                          | .7458  | .7468  | .7478  | .7488  | .7499  | .7509  | .7519  | .7529  | .7539  |
| 49.....                     | .7452                                          | .7462  | .7472  | .7482  | .7492  | .7503  | .7513  | .7523  | .7533  | .7543  |
| 50.....                     | .7456                                          | .7466  | .7476  | .7486  | .7496  | .7507  | .7517  | .7527  | .7537  | .7547  |
| 51.....                     | .7460                                          | .7470  | .7480  | .7490  | .7500  | .7511  | .7521  | .7531  | .7541  | .7551  |
| 52.....                     | .7465                                          | .7475  | .7485  | .7495  | .7505  | .7515  | .7525  | .7535  | .7545  | .7555  |
| 53.....                     | .7470                                          | .7480  | .7490  | .7500  | .7510  | .7520  | .7530  | .7540  | .7550  | .7560  |
| 54.....                     | .7475                                          | .7485  | .7495  | .7505  | .7515  | .7525  | .7535  | .7545  | .7555  | .7565  |
| 55.....                     | .7479                                          | .7489  | .7499  | .7509  | .7519  | .7529  | .7539  | .7549  | .7559  | .7569  |
| 56.....                     | .7483                                          | .7493  | .7503  | .7513  | .7523  | .7533  | .7543  | .7553  | .7563  | .7573  |
| 57.....                     | .7487                                          | .7497  | .7507  | .7517  | .7527  | .7538  | .7548  | .7558  | .7568  | .7578  |
| 58.....                     | .7491                                          | .7501  | .7511  | .7521  | .7531  | .7542  | .7552  | .7562  | .7572  | .7582  |
| 59.....                     | .7496                                          | .7506  | .7516  | .7526  | .7536  | .7546  | .7556  | .7566  | .7576  | .7586  |
| 60.....                     | .7500                                          | .7510  | .7520  | .7530  | .7540  | .7550  | .7560  | .7570  | .7580  | .7590  |
| 61.....                     | .7504                                          | .7514  | .7524  | .7534  | .7544  | .7554  | .7564  | .7574  | .7584  | .7594  |
| 62.....                     | .7509                                          | .7519  | .7529  | .7539  | .7549  | .7559  | .7569  | .7579  | .7589  | .7599  |
| 63.....                     | .7514                                          | .7524  | .7534  | .7544  | .7554  | .7563  | .7573  | .7583  | .7593  | .7603  |
| 64.....                     | .7518                                          | .7528  | .7538  | .7548  | .7558  | .7567  | .7577  | .7587  | .7597  | .7607  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in ° F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 0.750                                          | 0.751  | 0.752  | 0.753  | 0.754  | 0.755  | 0.756  | 0.757  | 0.758  | 0.759  |
|                              | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                      | 0.7522                                         | 0.7532 | 0.7542 | 0.7552 | 0.7562 | 0.7572 | 0.7582 | 0.7592 | 0.7602 | 0.7612 |
| 66.....                      | .7526                                          | .7536  | .7546  | .7556  | .7566  | .7576  | .7586  | .7596  | .7606  | .7616  |
| 67.....                      | .7531                                          | .7541  | .7551  | .7561  | .7571  | .7580  | .7590  | .7600  | .7610  | .7620  |
| 68.....                      | .7535                                          | .7545  | .7555  | .7565  | .7575  | .7584  | .7594  | .7604  | .7614  | .7624  |
| 69.....                      | .7539                                          | .7549  | .7559  | .7569  | .7579  | .7588  | .7598  | .7608  | .7618  | .7628  |
| 70.....                      | .7543                                          | .7553  | .7563  | .7573  | .7583  | .7592  | .7602  | .7612  | .7622  | .7632  |
| 71.....                      | .7548                                          | .7558  | .7568  | .7578  | .7588  | .7597  | .7607  | .7617  | .7627  | .7637  |
| 72.....                      | .7552                                          | .7562  | .7572  | .7582  | .7592  | .7601  | .7611  | .7621  | .7631  | .7641  |
| 73.....                      | .7556                                          | .7566  | .7576  | .7586  | .7596  | .7605  | .7615  | .7625  | .7635  | .7645  |
| 74.....                      | .7560                                          | .7570  | .7580  | .7590  | .7600  | .7609  | .7619  | .7629  | .7639  | .7649  |
| 75.....                      | .7565                                          | .7575  | .7585  | .7595  | .7605  | .7614  | .7624  | .7634  | .7644  | .7654  |
| 76.....                      | .7569                                          | .7579  | .7589  | .7599  | .7609  | .7618  | .7628  | .7638  | .7648  | .7658  |
| 77.....                      | .7574                                          | .7584  | .7594  | .7603  | .7613  | .7623  | .7633  | .7643  | .7652  | .7662  |
| 78.....                      | .7578                                          | .7588  | .7598  | .7607  | .7617  | .7627  | .7637  | .7647  | .7656  | .7666  |
| 79.....                      | .7582                                          | .7592  | .7602  | .7611  | .7621  | .7631  | .7641  | .7651  | .7660  | .7670  |
| 80.....                      | .7586                                          | .7596  | .7606  | .7615  | .7625  | .7635  | .7645  | .7655  | .7664  | .7674  |
| 81.....                      | .7590                                          | .7600  | .7610  | .7619  | .7629  | .7639  | .7649  | .7659  | .7668  | .7678  |
| 82.....                      | .7594                                          | .7604  | .7614  | .7623  | .7633  | .7643  | .7653  | .7663  | .7672  | .7682  |
| 83.....                      | .7598                                          | .7608  | .7618  | .7627  | .7637  | .7647  | .7657  | .7667  | .7676  | .7686  |
| 84.....                      | .7603                                          | .7613  | .7623  | .7632  | .7642  | .7652  | .7662  | .7672  | .7681  | .7691  |
| 85.....                      | .7607                                          | .7617  | .7627  | .7636  | .7646  | .7656  | .7666  | .7676  | .7685  | .7695  |
| 86.....                      | .7612                                          | .7622  | .7631  | .7641  | .7651  | .7660  | .7670  | .7680  | .7690  | .7699  |
| 87.....                      | .7616                                          | .7626  | .7635  | .7645  | .7655  | .7664  | .7674  | .7684  | .7694  | .7703  |
| 88.....                      | .7620                                          | .7630  | .7639  | .7649  | .7659  | .7668  | .7678  | .7688  | .7698  | .7707  |
| 89.....                      | .7624                                          | .7634  | .7643  | .7653  | .7663  | .7672  | .7682  | .7692  | .7702  | .7711  |
| 90.....                      | .7628                                          | .7638  | .7647  | .7657  | .7667  | .7676  | .7686  | .7696  | .7706  | .7715  |
| 91.....                      | .7632                                          | .7642  | .7651  | .7661  | .7671  | .7680  | .7690  | .7700  | .7710  | .7719  |
| 92.....                      | .7636                                          | .7646  | .7655  | .7665  | .7675  | .7684  | .7694  | .7704  | .7714  | .7723  |
| 93.....                      | .7640                                          | .7650  | .7659  | .7669  | .7679  | .7688  | .7698  | .7708  | .7718  | .7727  |
| 94.....                      | .7645                                          | .7655  | .7664  | .7674  | .7683  | .7693  | .7703  | .7712  | .7722  | .7731  |
| 95.....                      | .7649                                          | .7659  | .7668  | .7678  | .7687  | .7697  | .7707  | .7716  | .7726  | .7735  |
| 96.....                      | .7653                                          | .7663  | .7672  | .7682  | .7692  | .7701  | .7711  | .7721  | .7731  | .7740  |
| 97.....                      | .7657                                          | .7667  | .7676  | .7686  | .7696  | .7705  | .7715  | .7725  | .7735  | .7744  |
| 98.....                      | .7662                                          | .7672  | .7681  | .7691  | .7700  | .7710  | .7720  | .7729  | .7739  | .7748  |
| 99.....                      | .7666                                          | .7676  | .7685  | .7695  | .7704  | .7714  | .7724  | .7733  | .7743  | .7752  |
| 100.....                     | .7670                                          | .7680  | .7689  | .7699  | .7708  | .7718  | .7728  | .7737  | .7747  | .7756  |
| 101.....                     | .7674                                          | .7684  | .7693  | .7703  | .7712  | .7722  | .7732  | .7741  | .7751  | .7760  |
| 102.....                     | .7678                                          | .7688  | .7697  | .7707  | .7716  | .7726  | .7736  | .7745  | .7755  | .7764  |
| 103.....                     | .7682                                          | .7692  | .7701  | .7711  | .7720  | .7730  | .7740  | .7749  | .7759  | .7768  |
| 104.....                     | .7686                                          | .7696  | .7705  | .7715  | .7724  | .7734  | .7744  | .7753  | .7763  | .7772  |
| 105.....                     | .7690                                          | .7700  | .7709  | .7719  | .7728  | .7738  | .7748  | .7757  | .7767  | .7776  |
| 106.....                     | .7694                                          | .7704  | .7713  | .7723  | .7732  | .7742  | .7752  | .7761  | .7771  | .7780  |
| 107.....                     | .7698                                          | .7708  | .7717  | .7727  | .7736  | .7746  | .7756  | .7765  | .7775  | .7784  |
| 108.....                     | .7702                                          | .7712  | .7721  | .7731  | .7740  | .7750  | .7760  | .7769  | .7779  | .7788  |
| 109.....                     | .7706                                          | .7716  | .7725  | .7735  | .7744  | .7754  | .7764  | .7773  | .7783  | .7792  |
| 110.....                     | .7710                                          | .7720  | .7729  | .7739  | .7748  | .7758  | .7768  | .7777  | .7787  | .7796  |
| 111.....                     | .7714                                          | .7724  | .7733  | .7743  | .7752  | .7762  | .7771  | .7781  | .7790  | .7800  |
| 112.....                     | .7718                                          | .7728  | .7737  | .7747  | .7756  | .7766  | .7775  | .7785  | .7794  | .7804  |
| 113.....                     | .7721                                          | .7731  | .7740  | .7750  | .7759  | .7769  | .7778  | .7788  | .7797  | .7807  |
| 114.....                     | .7725                                          | .7735  | .7744  | .7754  | .7763  | .7773  | .7782  | .7792  | .7801  | .7811  |
| 115.....                     | .7729                                          | .7739  | .7748  | .7758  | .7767  | .7777  | .7786  | .7796  | .7805  | .7815  |
| 116.....                     | .7733                                          | .7743  | .7752  | .7762  | .7771  | .7781  | .7790  | .7800  | .7809  | .7819  |
| 117.....                     | .7737                                          | .7747  | .7756  | .7766  | .7775  | .7785  | .7794  | .7804  | .7813  | .7823  |
| 118.....                     | .7741                                          | .7751  | .7760  | .7770  | .7779  | .7789  | .7798  | .7808  | .7817  | .7827  |
| 119.....                     | .7745                                          | .7755  | .7764  | .7774  | .7783  | .7793  | .7802  | .7812  | .7821  | .7831  |
| 120.....                     | .7749                                          | .7759  | .7768  | .7778  | .7787  | .7797  | .7806  | .7816  | .7825  | .7835  |
| 121.....                     | .7753                                          | .7763  | .7772  | .7782  | .7791  | .7801  | .7810  | .7820  | .7829  | .7839  |
| 122.....                     | .7757                                          | .7767  | .7776  | .7786  | .7795  | .7805  | .7814  | .7824  | .7833  | .7843  |
| 123.....                     | .7761                                          | .7770  | .7780  | .7789  | .7799  | .7808  | .7817  | .7827  | .7836  | .7846  |
| 124.....                     | .7765                                          | .7774  | .7784  | .7793  | .7803  | .7812  | .7821  | .7831  | .7840  | .7850  |
| 125.....                     | .7769                                          | .7778  | .7788  | .7797  | .7807  | .7816  | .7825  | .7835  | .7844  | .7854  |
| 126.....                     | .7773                                          | .7782  | .7792  | .7801  | .7811  | .7820  | .7829  | .7839  | .7848  | .7858  |
| 127.....                     | .7777                                          | .7786  | .7796  | .7805  | .7815  | .7824  | .7833  | .7843  | .7852  | .7862  |
| 128.....                     | .7781                                          | .7790  | .7800  | .7809  | .7819  | .7828  | .7837  | .7847  | .7856  | .7866  |
| 129.....                     | .7785                                          | .7794  | .7804  | .7813  | .7823  | .7832  | .7841  | .7851  | .7860  | .7870  |
| 130.....                     | .7789                                          | .7798  | .7808  | .7817  | .7827  | .7836  | .7845  | .7855  | .7864  | .7874  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.760                                          | 0.761  | 0.762  | 0.763  | 0.764  | 0.765  | 0.766  | 0.767  | 0.768  | 0.769  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0                           | 0.7328                                         | 0.7338 | 0.7349 | 0.7359 | 0.7370 | 0.7380 | 0.7390 | 0.7401 | 0.7411 | 0.7422 |
| 1                           | .7333                                          | .7343  | .7354  | .7364  | .7375  | .7385  | .7395  | .7406  | .7416  | .7427  |
| 2                           | .7338                                          | .7348  | .7359  | .7369  | .7380  | .7390  | .7400  | .7411  | .7421  | .7432  |
| 3                           | .7343                                          | .7353  | .7364  | .7374  | .7385  | .7395  | .7405  | .7416  | .7426  | .7437  |
| 4                           | .7348                                          | .7358  | .7369  | .7379  | .7390  | .7400  | .7410  | .7421  | .7431  | .7442  |
| 5                           | .7352                                          | .7362  | .7373  | .7383  | .7394  | .7404  | .7414  | .7425  | .7435  | .7446  |
| 6                           | .7357                                          | .7367  | .7378  | .7388  | .7399  | .7409  | .7419  | .7430  | .7440  | .7451  |
| 7                           | .7362                                          | .7372  | .7383  | .7393  | .7404  | .7414  | .7424  | .7435  | .7445  | .7456  |
| 8                           | .7367                                          | .7377  | .7388  | .7398  | .7409  | .7419  | .7429  | .7440  | .7450  | .7461  |
| 9                           | .7371                                          | .7381  | .7392  | .7402  | .7413  | .7423  | .7433  | .7444  | .7454  | .7465  |
| 10                          | .7376                                          | .7386  | .7397  | .7407  | .7418  | .7428  | .7438  | .7449  | .7459  | .7470  |
| 11                          | .7381                                          | .7391  | .7402  | .7412  | .7423  | .7433  | .7443  | .7454  | .7464  | .7475  |
| 12                          | .7385                                          | .7395  | .7406  | .7416  | .7427  | .7437  | .7447  | .7458  | .7468  | .7479  |
| 13                          | .7390                                          | .7400  | .7411  | .7421  | .7432  | .7442  | .7452  | .7463  | .7473  | .7484  |
| 14                          | .7394                                          | .7404  | .7415  | .7425  | .7436  | .7446  | .7456  | .7467  | .7477  | .7488  |
| 15                          | .7399                                          | .7409  | .7420  | .7430  | .7441  | .7451  | .7461  | .7472  | .7482  | .7493  |
| 16                          | .7404                                          | .7414  | .7425  | .7435  | .7446  | .7456  | .7466  | .7477  | .7487  | .7498  |
| 17                          | .7409                                          | .7419  | .7430  | .7440  | .7451  | .7461  | .7471  | .7482  | .7492  | .7503  |
| 18                          | .7414                                          | .7424  | .7435  | .7445  | .7455  | .7466  | .7476  | .7486  | .7496  | .7507  |
| 19                          | .7418                                          | .7428  | .7439  | .7449  | .7460  | .7470  | .7480  | .7491  | .7501  | .7512  |
| 20                          | .7423                                          | .7433  | .7444  | .7454  | .7464  | .7475  | .7485  | .7495  | .7505  | .7516  |
| 21                          | .7427                                          | .7437  | .7448  | .7458  | .7468  | .7479  | .7489  | .7499  | .7509  | .7520  |
| 22                          | .7432                                          | .7442  | .7453  | .7463  | .7473  | .7484  | .7494  | .7504  | .7514  | .7525  |
| 23                          | .7436                                          | .7446  | .7457  | .7467  | .7477  | .7488  | .7498  | .7508  | .7518  | .7529  |
| 24                          | .7441                                          | .7451  | .7462  | .7472  | .7482  | .7493  | .7503  | .7513  | .7523  | .7534  |
| 25                          | .7445                                          | .7455  | .7466  | .7476  | .7486  | .7497  | .7507  | .7517  | .7527  | .7538  |
| 26                          | .7450                                          | .7460  | .7471  | .7481  | .7491  | .7502  | .7512  | .7522  | .7532  | .7543  |
| 27                          | .7454                                          | .7464  | .7475  | .7485  | .7495  | .7506  | .7516  | .7526  | .7536  | .7547  |
| 28                          | .7459                                          | .7469  | .7480  | .7490  | .7500  | .7511  | .7521  | .7531  | .7541  | .7552  |
| 29                          | .7463                                          | .7473  | .7484  | .7494  | .7504  | .7515  | .7525  | .7535  | .7545  | .7556  |
| 30                          | .7468                                          | .7478  | .7488  | .7499  | .7509  | .7519  | .7529  | .7539  | .7550  | .7560  |
| 31                          | .7472                                          | .7482  | .7493  | .7503  | .7513  | .7524  | .7534  | .7544  | .7554  | .7565  |
| 32                          | .7477                                          | .7487  | .7497  | .7508  | .7518  | .7528  | .7538  | .7548  | .7559  | .7569  |
| 33                          | .7481                                          | .7491  | .7501  | .7512  | .7522  | .7532  | .7542  | .7552  | .7563  | .7573  |
| 34                          | .7486                                          | .7496  | .7506  | .7517  | .7527  | .7537  | .7547  | .7557  | .7568  | .7578  |
| 35                          | .7491                                          | .7501  | .7511  | .7522  | .7532  | .7542  | .7552  | .7562  | .7573  | .7583  |
| 36                          | .7495                                          | .7505  | .7515  | .7526  | .7536  | .7546  | .7556  | .7566  | .7577  | .7587  |
| 37                          | .7499                                          | .7509  | .7519  | .7530  | .7540  | .7550  | .7560  | .7570  | .7581  | .7591  |
| 38                          | .7504                                          | .7514  | .7524  | .7534  | .7544  | .7555  | .7565  | .7575  | .7585  | .7595  |
| 39                          | .7508                                          | .7518  | .7528  | .7539  | .7549  | .7559  | .7569  | .7579  | .7590  | .7600  |
| 40                          | .7513                                          | .7523  | .7533  | .7543  | .7553  | .7564  | .7574  | .7584  | .7594  | .7604  |
| 41                          | .7517                                          | .7527  | .7537  | .7547  | .7557  | .7568  | .7578  | .7588  | .7598  | .7608  |
| 42                          | .7522                                          | .7532  | .7542  | .7552  | .7562  | .7573  | .7583  | .7593  | .7603  | .7613  |
| 43                          | .7526                                          | .7536  | .7546  | .7556  | .7566  | .7577  | .7587  | .7597  | .7607  | .7617  |
| 44                          | .7531                                          | .7541  | .7551  | .7561  | .7571  | .7582  | .7592  | .7602  | .7612  | .7622  |
| 45                          | .7535                                          | .7545  | .7555  | .7565  | .7575  | .7586  | .7596  | .7606  | .7616  | .7626  |
| 46                          | .7539                                          | .7549  | .7559  | .7569  | .7579  | .7590  | .7600  | .7610  | .7620  | .7630  |
| 47                          | .7544                                          | .7554  | .7564  | .7574  | .7584  | .7595  | .7605  | .7615  | .7625  | .7635  |
| 48                          | .7549                                          | .7559  | .7569  | .7579  | .7589  | .7600  | .7610  | .7620  | .7630  | .7640  |
| 49                          | .7553                                          | .7563  | .7573  | .7583  | .7593  | .7604  | .7614  | .7624  | .7634  | .7644  |
| 50                          | .7557                                          | .7567  | .7577  | .7587  | .7597  | .7608  | .7618  | .7628  | .7638  | .7648  |
| 51                          | .7561                                          | .7571  | .7581  | .7591  | .7601  | .7612  | .7622  | .7632  | .7642  | .7652  |
| 52                          | .7565                                          | .7575  | .7585  | .7595  | .7605  | .7616  | .7626  | .7636  | .7646  | .7656  |
| 53                          | .7570                                          | .7580  | .7590  | .7600  | .7610  | .7620  | .7630  | .7640  | .7650  | .7660  |
| 54                          | .7575                                          | .7585  | .7595  | .7605  | .7615  | .7625  | .7635  | .7645  | .7655  | .7665  |
| 55                          | .7579                                          | .7589  | .7599  | .7609  | .7619  | .7629  | .7639  | .7649  | .7659  | .7669  |
| 56                          | .7583                                          | .7593  | .7603  | .7613  | .7623  | .7633  | .7643  | .7653  | .7663  | .7673  |
| 57                          | .7588                                          | .7598  | .7608  | .7618  | .7628  | .7638  | .7648  | .7658  | .7668  | .7678  |
| 58                          | .7592                                          | .7602  | .7612  | .7622  | .7632  | .7642  | .7652  | .7662  | .7672  | .7682  |
| 59                          | .7596                                          | .7606  | .7616  | .7626  | .7636  | .7646  | .7656  | .7666  | .7676  | .7686  |
| 60                          | .7600                                          | .7610  | .7620  | .7630  | .7640  | .7650  | .7660  | .7670  | .7680  | .7690  |
| 61                          | .7604                                          | .7614  | .7624  | .7634  | .7644  | .7654  | .7664  | .7674  | .7684  | .7694  |
| 62                          | .7609                                          | .7619  | .7629  | .7639  | .7649  | .7658  | .7668  | .7678  | .7688  | .7698  |
| 63                          | .7613                                          | .7623  | .7623  | .7643  | .7653  | .7663  | .7673  | .7683  | .7693  | .7703  |
| 64                          | .7617                                          | .7627  | .7637  | .7647  | .7657  | .7667  | .7677  | .7687  | .7697  | .7707  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.760                                          | 0.761  | 0.762  | 0.763  | 0.764  | 0.765  | 0.766  | 0.767  | 0.768  | 0.769  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                     | 0.7622                                         | 0.7632 | 0.7642 | 0.7652 | 0.7662 | 0.7671 | 0.7681 | 0.7691 | 0.7701 | 0.7711 |
| 66.....                     | .7626                                          | .7636  | .7646  | .7656  | .7666  | .7675  | .7685  | .7695  | .7705  | .7715  |
| 67.....                     | .7630                                          | .7640  | .7650  | .7660  | .7670  | .7679  | .7689  | .7699  | .7709  | .7719  |
| 68.....                     | .7634                                          | .7644  | .7654  | .7664  | .7674  | .7683  | .7693  | .7703  | .7713  | .7723  |
| 69.....                     | .7638                                          | .7648  | .7658  | .7768  | .7678  | .7687  | .7697  | .7707  | .7717  | .7727  |
| 70.....                     | .7642                                          | .7652  | .7662  | .7672  | .7682  | .7691  | .7701  | .7711  | .7721  | .7731  |
| 71.....                     | .7647                                          | .7657  | .7667  | .7677  | .7687  | .7696  | .7706  | .7716  | .7726  | .7736  |
| 72.....                     | .7651                                          | .7661  | .7671  | .7681  | .7691  | .7700  | .7710  | .7720  | .7730  | .7740  |
| 73.....                     | .7655                                          | .7665  | .7675  | .7685  | .7695  | .7704  | .7714  | .7724  | .7734  | .7744  |
| 74.....                     | .7659                                          | .7669  | .7679  | .7689  | .7699  | .7708  | .7718  | .7728  | .7738  | .7748  |
| 75.....                     | .7664                                          | .7674  | .7684  | .7693  | .7703  | .7713  | .7723  | .7733  | .7742  | .7752  |
| 76.....                     | .7668                                          | .7678  | .7688  | .7697  | .7707  | .7717  | .7727  | .7737  | .7746  | .7756  |
| 77.....                     | .7672                                          | .7682  | .7692  | .7701  | .7711  | .7721  | .7731  | .7741  | .7750  | .7760  |
| 78.....                     | .7676                                          | .7686  | .7696  | .7705  | .7715  | .7725  | .7735  | .7745  | .7754  | .7764  |
| 79.....                     | .7680                                          | .7690  | .7700  | .7709  | .7719  | .7729  | .7739  | .7749  | .7758  | .7768  |
| 80.....                     | .7684                                          | .7694  | .7704  | .7713  | .7723  | .7733  | .7743  | .7753  | .7762  | .7772  |
| 81.....                     | .7688                                          | .7698  | .7708  | .7717  | .7727  | .7737  | .7747  | .7757  | .7766  | .7776  |
| 82.....                     | .7692                                          | .7702  | .7712  | .7721  | .7731  | .7741  | .7751  | .7761  | .7770  | .7780  |
| 83.....                     | .7696                                          | .7706  | .7716  | .7725  | .7735  | .7745  | .7755  | .7765  | .7774  | .7784  |
| 84.....                     | .7701                                          | .7711  | .7720  | .7730  | .7740  | .7749  | .7759  | .7769  | .7778  | .7788  |
| 85.....                     | .7705                                          | .7715  | .7724  | .7734  | .7744  | .7753  | .7763  | .7773  | .7782  | .7792  |
| 86.....                     | .7709                                          | .7719  | .7729  | .7738  | .7748  | .7758  | .7768  | .7778  | .7787  | .7797  |
| 87.....                     | .7713                                          | .7723  | .7733  | .7742  | .7752  | .7762  | .7772  | .7782  | .7791  | .7801  |
| 88.....                     | .7717                                          | .7727  | .7737  | .7746  | .7756  | .7766  | .7776  | .7786  | .7795  | .7805  |
| 89.....                     | .7721                                          | .7731  | .7741  | .7750  | .7760  | .7770  | .7780  | .7790  | .7799  | .7809  |
| 90.....                     | .7725                                          | .7735  | .7745  | .7754  | .7764  | .7774  | .7784  | .7794  | .7803  | .7813  |
| 91.....                     | .7729                                          | .7739  | .7749  | .7758  | .7768  | .7778  | .7788  | .7798  | .7807  | .7817  |
| 92.....                     | .7733                                          | .7743  | .7753  | .7762  | .7772  | .7782  | .7792  | .7802  | .7811  | .7821  |
| 93.....                     | .7737                                          | .7747  | .7757  | .7768  | .7776  | .7786  | .7796  | .7806  | .7815  | .7825  |
| 94.....                     | .7741                                          | .7751  | .7761  | .7770  | .7780  | .7790  | .7800  | .7810  | .7819  | .7829  |
| 95.....                     | .7745                                          | .7755  | .7765  | .7774  | .7784  | .7794  | .7804  | .7813  | .7823  | .7832  |
| 96.....                     | .7750                                          | .7760  | .7769  | .7779  | .7788  | .7798  | .7808  | .7817  | .7827  | .7836  |
| 97.....                     | .7754                                          | .7764  | .7773  | .7783  | .7792  | .7802  | .7812  | .7821  | .7831  | .7840  |
| 98.....                     | .7758                                          | .7768  | .7777  | .7787  | .7796  | .7806  | .7816  | .7825  | .7835  | .7844  |
| 99.....                     | .7762                                          | .7772  | .7781  | .7791  | .7800  | .7810  | .7820  | .7829  | .7839  | .7848  |
| 100.....                    | .7766                                          | .7776  | .7785  | .7795  | .7804  | .7814  | .7824  | .7833  | .7843  | .7852  |
| 101.....                    | .7770                                          | .7780  | .7789  | .7799  | .7808  | .7818  | .7828  | .7837  | .7847  | .7856  |
| 102.....                    | .7774                                          | .7784  | .7793  | .7803  | .7812  | .7822  | .7832  | .7841  | .7851  | .7860  |
| 103.....                    | .7778                                          | .7788  | .7797  | .7807  | .7816  | .7826  | .7836  | .7845  | .7855  | .7864  |
| 104.....                    | .7782                                          | .7792  | .7801  | .7811  | .7820  | .7830  | .7840  | .7849  | .7859  | .7868  |
| 105.....                    | .7786                                          | .7796  | .7805  | .7815  | .7824  | .7834  | .7844  | .7853  | .7863  | .7872  |
| 106.....                    | .7790                                          | .7800  | .7809  | .7819  | .7828  | .7838  | .7848  | .7857  | .7867  | .7876  |
| 107.....                    | .7794                                          | .7804  | .7813  | .7823  | .7832  | .7842  | .7852  | .7861  | .7871  | .7880  |
| 108.....                    | .7798                                          | .7808  | .7817  | .7827  | .7836  | .7846  | .7856  | .7865  | .7875  | .7884  |
| 109.....                    | .7802                                          | .7812  | .7821  | .7831  | .7840  | .7850  | .7860  | .7869  | .7879  | .7888  |
| 110.....                    | .7806                                          | .7816  | .7825  | .7835  | .7844  | .7854  | .7864  | .7873  | .7883  | .7892  |
| 111.....                    | .7809                                          | .7819  | .7828  | .7838  | .7847  | .7857  | .7867  | .7876  | .7886  | .7895  |
| 112.....                    | .7813                                          | .7823  | .7832  | .7842  | .7851  | .7861  | .7871  | .7880  | .7890  | .7899  |
| 113.....                    | .7816                                          | .7826  | .7835  | .7845  | .7854  | .7864  | .7874  | .7883  | .7893  | .7902  |
| 114.....                    | .7820                                          | .7830  | .7839  | .7849  | .7858  | .7868  | .7878  | .7887  | .7897  | .7906  |
| 115.....                    | .7824                                          | .7834  | .7843  | .7853  | .7862  | .7872  | .7882  | .7891  | .7901  | .7910  |
| 116.....                    | .7828                                          | .7838  | .7847  | .7857  | .7866  | .7876  | .7886  | .7895  | .7905  | .7914  |
| 117.....                    | .7832                                          | .7842  | .7851  | .7861  | .7870  | .7880  | .7890  | .7899  | .7909  | .7918  |
| 118.....                    | .7836                                          | .7846  | .7855  | .7865  | .7874  | .7884  | .7894  | .7903  | .7913  | .7922  |
| 119.....                    | .7840                                          | .7850  | .7859  | .7869  | .7878  | .7888  | .7897  | .7907  | .7916  | .7926  |
| 120.....                    | .7844                                          | .7854  | .7863  | .7873  | .7882  | .7892  | .7901  | .7911  | .7920  | .7930  |
| 121.....                    | .7848                                          | .7858  | .7867  | .7877  | .7886  | .7896  | .7905  | .7915  | .7924  | .7934  |
| 122.....                    | .7852                                          | .7862  | .7871  | .7881  | .7890  | .7900  | .7909  | .7919  | .7928  | .7938  |
| 123.....                    | .7855                                          | .7865  | .7874  | .7884  | .7893  | .7903  | .7912  | .7922  | .7931  | .7941  |
| 124.....                    | .7859                                          | .7869  | .7878  | .7888  | .7897  | .7907  | .7916  | .7926  | .7935  | .7945  |
| 125.....                    | .7863                                          | .7873  | .7882  | .7892  | .7901  | .7911  | .7920  | .7930  | .7939  | .7949  |
| 126.....                    | .7867                                          | .7877  | .7886  | .7896  | .7905  | .7915  | .7924  | .7934  | .7943  | .7953  |
| 127.....                    | .7871                                          | .7881  | .7890  | .7900  | .7909  | .7919  | .7928  | .7938  | .7947  | .7957  |
| 128.....                    | .7875                                          | .7884  | .7894  | .7903  | .7913  | .7923  | .7932  | .7941  | .7951  | .7960  |
| 129.....                    | .7879                                          | .7888  | .7898  | .7907  | .7917  | .7926  | .7936  | .7945  | .7955  | .7964  |
| 130.....                    | .7883                                          | .7892  | .7902  | .7911  | .7921  | .7930  | .7940  | .7949  | .7959  | .7968  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in ° F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 0.770                                          | 0.771  | 0.772  | 0.773  | 0.774  | 0.775  | 0.776  | 0.777  | 0.778  | 0.779  |
|                              | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                       | 0.7432                                         | 0.7442 | 0.7453 | 0.7463 | 0.7474 | 0.7484 | 0.7495 | 0.7505 | 0.7516 | 0.7526 |
| 1.....                       | .7437                                          | .7447  | .7458  | .7468  | .7479  | .7489  | .7500  | .7510  | .7521  | .7531  |
| 2.....                       | .7442                                          | .7452  | .7463  | .7473  | .7484  | .7494  | .7505  | .7515  | .7526  | .7536  |
| 3.....                       | .7447                                          | .7457  | .7468  | .7478  | .7489  | .7499  | .7510  | .7520  | .7531  | .7541  |
| 4.....                       | .7452                                          | .7462  | .7473  | .7483  | .7494  | .7504  | .7515  | .7525  | .7536  | .7546  |
| 5.....                       | .7456                                          | .7466  | .7477  | .7487  | .7498  | .7508  | .7519  | .7529  | .7540  | .7550  |
| 6.....                       | .7461                                          | .7471  | .7482  | .7492  | .7503  | .7513  | .7524  | .7534  | .7545  | .7555  |
| 7.....                       | .7466                                          | .7476  | .7487  | .7497  | .7508  | .7518  | .7528  | .7539  | .7549  | .7560  |
| 8.....                       | .7471                                          | .7481  | .7492  | .7502  | .7513  | .7523  | .7533  | .7544  | .7554  | .7565  |
| 9.....                       | .7475                                          | .7485  | .7496  | .7506  | .7517  | .7527  | .7538  | .7548  | .7559  | .7569  |
| 10.....                      | .7480                                          | .7490  | .7501  | .7511  | .7522  | .7532  | .7543  | .7553  | .7564  | .7574  |
| 11.....                      | .7485                                          | .7495  | .7506  | .7516  | .7527  | .7537  | .7547  | .7558  | .7568  | .7579  |
| 12.....                      | .7489                                          | .7499  | .7510  | .7520  | .7530  | .7541  | .7551  | .7562  | .7572  | .7583  |
| 13.....                      | .7494                                          | .7504  | .7515  | .7525  | .7536  | .7546  | .7556  | .7567  | .7577  | .7588  |
| 14.....                      | .7498                                          | .7508  | .7519  | .7529  | .7540  | .7550  | .7561  | .7571  | .7582  | .7592  |
| 15.....                      | .7503                                          | .7513  | .7524  | .7534  | .7545  | .7555  | .7565  | .7576  | .7586  | .7597  |
| 16.....                      | .7508                                          | .7518  | .7529  | .7539  | .7550  | .7560  | .7570  | .7581  | .7591  | .7602  |
| 17.....                      | .7513                                          | .7523  | .7534  | .7544  | .7555  | .7565  | .7575  | .7586  | .7596  | .7607  |
| 18.....                      | .7517                                          | .7527  | .7538  | .7548  | .7559  | .7569  | .7579  | .7590  | .7600  | .7611  |
| 19.....                      | .7522                                          | .7532  | .7543  | .7553  | .7563  | .7574  | .7584  | .7594  | .7604  | .7615  |
| 20.....                      | .7526                                          | .7536  | .7547  | .7557  | .7567  | .7578  | .7588  | .7598  | .7608  | .7619  |
| 21.....                      | .7530                                          | .7540  | .7551  | .7561  | .7572  | .7582  | .7592  | .7603  | .7613  | .7624  |
| 22.....                      | .7535                                          | .7545  | .7556  | .7566  | .7576  | .7587  | .7597  | .7607  | .7617  | .7628  |
| 23.....                      | .7539                                          | .7549  | .7560  | .7570  | .7580  | .7591  | .7601  | .7611  | .7621  | .7632  |
| 24.....                      | .7544                                          | .7554  | .7565  | .7575  | .7585  | .7596  | .7606  | .7616  | .7626  | .7637  |
| 25.....                      | .7548                                          | .7558  | .7569  | .7579  | .7589  | .7600  | .7610  | .7620  | .7630  | .7641  |
| 26.....                      | .7553                                          | .7563  | .7574  | .7584  | .7594  | .7605  | .7615  | .7625  | .7635  | .7646  |
| 27.....                      | .7557                                          | .7567  | .7578  | .7588  | .7598  | .7609  | .7619  | .7629  | .7639  | .7650  |
| 28.....                      | .7562                                          | .7572  | .7583  | .7593  | .7603  | .7614  | .7624  | .7634  | .7644  | .7655  |
| 29.....                      | .7566                                          | .7576  | .7587  | .7597  | .7607  | .7618  | .7628  | .7638  | .7648  | .7659  |
| 30.....                      | .7570                                          | .7580  | .7591  | .7601  | .7611  | .7622  | .7632  | .7642  | .7652  | .7663  |
| 31.....                      | .7575                                          | .7585  | .7595  | .7606  | .7616  | .7626  | .7636  | .7646  | .7657  | .7667  |
| 32.....                      | .7579                                          | .7589  | .7600  | .7610  | .7620  | .7631  | .7641  | .7651  | .7661  | .7672  |
| 33.....                      | .7583                                          | .7593  | .7604  | .7614  | .7624  | .7635  | .7645  | .7655  | .7665  | .7676  |
| 34.....                      | .7588                                          | .7598  | .7608  | .7619  | .7629  | .7639  | .7649  | .7659  | .7670  | .7680  |
| 35.....                      | .7593                                          | .7603  | .7613  | .7624  | .7634  | .7644  | .7654  | .7664  | .7675  | .7685  |
| 36.....                      | .7597                                          | .7607  | .7617  | .7628  | .7638  | .7648  | .7658  | .7668  | .7679  | .7689  |
| 37.....                      | .7601                                          | .7611  | .7621  | .7632  | .7642  | .7652  | .7662  | .7672  | .7683  | .7693  |
| 38.....                      | .7605                                          | .7615  | .7625  | .7636  | .7646  | .7656  | .7666  | .7676  | .7687  | .7697  |
| 39.....                      | .7610                                          | .7620  | .7630  | .7640  | .7650  | .7661  | .7671  | .7681  | .7691  | .7701  |
| 40.....                      | .7614                                          | .7624  | .7634  | .7645  | .7655  | .7665  | .7675  | .7685  | .7696  | .7706  |
| 41.....                      | .7618                                          | .7628  | .7638  | .7649  | .7659  | .7669  | .7679  | .7689  | .7700  | .7710  |
| 42.....                      | .7623                                          | .7633  | .7643  | .7653  | .7663  | .7674  | .7684  | .7694  | .7704  | .7714  |
| 43.....                      | .7627                                          | .7637  | .7647  | .7657  | .7667  | .7678  | .7688  | .7698  | .7708  | .7718  |
| 44.....                      | .7632                                          | .7642  | .7652  | .7662  | .7672  | .7683  | .7693  | .7703  | .7713  | .7723  |
| 45.....                      | .7636                                          | .7646  | .7656  | .7666  | .7676  | .7687  | .7697  | .7707  | .7717  | .7727  |
| 46.....                      | .7640                                          | .7650  | .7660  | .7670  | .7680  | .7691  | .7701  | .7711  | .7721  | .7731  |
| 47.....                      | .7645                                          | .7655  | .7665  | .7675  | .7685  | .7696  | .7706  | .7716  | .7726  | .7736  |
| 48.....                      | .7650                                          | .7660  | .7670  | .7680  | .7690  | .7700  | .7710  | .7720  | .7730  | .7740  |
| 49.....                      | .7654                                          | .7664  | .7674  | .7684  | .7694  | .7705  | .7715  | .7725  | .7735  | .7745  |
| 50.....                      | .7658                                          | .7668  | .7678  | .7688  | .7698  | .7709  | .7719  | .7729  | .7739  | .7749  |
| 51.....                      | .7662                                          | .7672  | .7682  | .7692  | .7702  | .7713  | .7723  | .7733  | .7743  | .7753  |
| 52.....                      | .7666                                          | .7676  | .7686  | .7696  | .7706  | .7717  | .7727  | .7737  | .7747  | .7757  |
| 53.....                      | .7670                                          | .7680  | .7690  | .7700  | .7710  | .7721  | .7731  | .7741  | .7751  | .7761  |
| 54.....                      | .7675                                          | .7685  | .7695  | .7705  | .7715  | .7725  | .7735  | .7745  | .7755  | .7765  |
| 55.....                      | .7679                                          | .7689  | .7699  | .7709  | .7719  | .7729  | .7739  | .7749  | .7759  | .7769  |
| 56.....                      | .7683                                          | .7693  | .7703  | .7713  | .7723  | .7733  | .7743  | .7753  | .7763  | .7773  |
| 57.....                      | .7688                                          | .7698  | .7708  | .7718  | .7728  | .7738  | .7748  | .7758  | .7768  | .7778  |
| 58.....                      | .7692                                          | .7702  | .7712  | .7722  | .7732  | .7742  | .7752  | .7762  | .7772  | .7782  |
| 59.....                      | .7696                                          | .7706  | .7716  | .7726  | .7736  | .7746  | .7756  | .7766  | .7776  | .7786  |
| 60.....                      | .7700                                          | .7710  | .7720  | .7730  | .7740  | .7750  | .7760  | .7770  | .7780  | .7790  |
| 61.....                      | .7704                                          | .7714  | .7724  | .7734  | .7744  | .7754  | .7764  | .7774  | .7784  | .7794  |
| 62.....                      | .7708                                          | .7718  | .7728  | .7738  | .7748  | .7758  | .7768  | .7778  | .7788  | .7798  |
| 63.....                      | .7713                                          | .7723  | .7733  | .7743  | .7753  | .7763  | .7773  | .7783  | .7793  | .7803  |
| 64.....                      | .7717                                          | .7727  | .7737  | .7747  | .7757  | .7767  | .7777  | .7787  | .7797  | .7807  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.770                                          | 0.771  | 0.772  | 0.773  | 0.774  | 0.775  | 0.776  | 0.777  | 0.778  | 0.779  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                     | 0.7721                                         | 0.7731 | 0.7741 | 0.7751 | 0.7761 | 0.7771 | 0.7781 | 0.7791 | 0.7801 | 0.7811 |
| 66.....                     | .7725                                          | .7735  | .7745  | .7755  | .7765  | .7775  | .7785  | .7795  | .7805  | .7815  |
| 67.....                     | .7729                                          | .7739  | .7749  | .7759  | .7769  | .7779  | .7789  | .7799  | .7809  | .7819  |
| 68.....                     | .7733                                          | .7743  | .7753  | .7763  | .7773  | .7783  | .7793  | .7803  | .7813  | .7823  |
| 69.....                     | .7737                                          | .7747  | .7757  | .7767  | .7777  | .7787  | .7797  | .7807  | .7817  | .7827  |
| 70.....                     | .7741                                          | .7751  | .7761  | .7771  | .7781  | .7791  | .7801  | .7811  | .7821  | .7831  |
| 71.....                     | .7746                                          | .7756  | .7766  | .7776  | .7786  | .7795  | .7805  | .7815  | .7825  | .7835  |
| 72.....                     | .7750                                          | .7760  | .7770  | .7780  | .7790  | .7799  | .7809  | .7819  | .7829  | .7839  |
| 73.....                     | .7754                                          | .7764  | .7774  | .7784  | .7794  | .7803  | .7813  | .7823  | .7833  | .7843  |
| 74.....                     | .7758                                          | .7768  | .7778  | .7788  | .7798  | .7807  | .7817  | .7827  | .7837  | .7847  |
| 75.....                     | .7762                                          | .7772  | .7782  | .7792  | .7802  | .7811  | .7821  | .7831  | .7841  | .7851  |
| 76.....                     | .7766                                          | .7776  | .7786  | .7796  | .7806  | .7815  | .7825  | .7835  | .7845  | .7855  |
| 77.....                     | .7770                                          | .7780  | .7790  | .7800  | .7810  | .7819  | .7829  | .7839  | .7849  | .7859  |
| 78.....                     | .7774                                          | .7784  | .7794  | .7804  | .7814  | .7823  | .7833  | .7843  | .7853  | .7863  |
| 79.....                     | .7778                                          | .7788  | .7798  | .7808  | .7818  | .7827  | .7837  | .7847  | .7857  | .7867  |
| 80.....                     | .7782                                          | .7792  | .7802  | .7812  | .7822  | .7831  | .7841  | .7851  | .7861  | .7871  |
| 81.....                     | .7786                                          | .7796  | .7806  | .7816  | .7826  | .7835  | .7845  | .7855  | .7865  | .7875  |
| 82.....                     | .7790                                          | .7800  | .7810  | .7820  | .7830  | .7839  | .7849  | .7859  | .7869  | .7879  |
| 83.....                     | .7794                                          | .7804  | .7814  | .7824  | .7834  | .7843  | .7853  | .7863  | .7873  | .7883  |
| 84.....                     | .7798                                          | .7808  | .7818  | .7828  | .7838  | .7847  | .7857  | .7867  | .7877  | .7887  |
| 85.....                     | .7802                                          | .7812  | .7822  | .7832  | .7842  | .7851  | .7861  | .7871  | .7881  | .7891  |
| 86.....                     | .7807                                          | .7817  | .7827  | .7836  | .7846  | .7856  | .7866  | .7876  | .7885  | .7895  |
| 87.....                     | .7811                                          | .7821  | .7831  | .7840  | .7850  | .7860  | .7870  | .7880  | .7889  | .7899  |
| 88.....                     | .7815                                          | .7825  | .7835  | .7844  | .7854  | .7864  | .7874  | .7884  | .7893  | .7903  |
| 89.....                     | .7819                                          | .7829  | .7839  | .7848  | .7858  | .7868  | .7878  | .7888  | .7897  | .7907  |
| 90.....                     | .7823                                          | .7833  | .7842  | .7852  | .7862  | .7871  | .7881  | .7891  | .7901  | .7910  |
| 91.....                     | .7827                                          | .7837  | .7846  | .7856  | .7866  | .7875  | .7885  | .7895  | .7905  | .7914  |
| 92.....                     | .7831                                          | .7841  | .7850  | .7860  | .7870  | .7879  | .7889  | .7899  | .7909  | .7918  |
| 93.....                     | .7835                                          | .7845  | .7854  | .7864  | .7874  | .7883  | .7893  | .7903  | .7913  | .7922  |
| 94.....                     | .7839                                          | .7849  | .7858  | .7868  | .7877  | .7887  | .7897  | .7906  | .7916  | .7925  |
| 95.....                     | .7842                                          | .7852  | .7861  | .7871  | .7881  | .7890  | .7900  | .7910  | .7920  | .7929  |
| 96.....                     | .7846                                          | .7856  | .7865  | .7875  | .7885  | .7894  | .7904  | .7914  | .7924  | .7933  |
| 97.....                     | .7850                                          | .7860  | .7869  | .7879  | .7889  | .7898  | .7908  | .7918  | .7928  | .7937  |
| 98.....                     | .7854                                          | .7864  | .7873  | .7883  | .7892  | .7902  | .7912  | .7921  | .7931  | .7940  |
| 99.....                     | .7858                                          | .7868  | .7877  | .7887  | .7896  | .7906  | .7916  | .7925  | .7935  | .7944  |
| 100.....                    | .7862                                          | .7872  | .7881  | .7891  | .7900  | .7910  | .7920  | .7929  | .7939  | .7948  |
| 101.....                    | .7866                                          | .7876  | .7885  | .7895  | .7904  | .7914  | .7924  | .7933  | .7943  | .7952  |
| 102.....                    | .7870                                          | .7880  | .7889  | .7899  | .7908  | .7918  | .7928  | .7937  | .7947  | .7956  |
| 103.....                    | .7874                                          | .7884  | .7893  | .7903  | .7912  | .7922  | .7932  | .7941  | .7951  | .7960  |
| 104.....                    | .7878                                          | .7888  | .7897  | .7907  | .7916  | .7926  | .7936  | .7945  | .7955  | .7964  |
| 105.....                    | .7882                                          | .7892  | .7901  | .7911  | .7920  | .7930  | .7939  | .7949  | .7958  | .7968  |
| 106.....                    | .7886                                          | .7896  | .7905  | .7915  | .7924  | .7934  | .7943  | .7953  | .7962  | .7972  |
| 107.....                    | .7890                                          | .7900  | .7909  | .7919  | .7928  | .7938  | .7947  | .7957  | .7966  | .7976  |
| 108.....                    | .7894                                          | .7904  | .7913  | .7923  | .7932  | .7942  | .7951  | .7961  | .7970  | .7980  |
| 109.....                    | .7898                                          | .7908  | .7917  | .7927  | .7936  | .7946  | .7955  | .7965  | .7974  | .7984  |
| 110.....                    | .7902                                          | .7912  | .7921  | .7931  | .7940  | .7950  | .7959  | .7969  | .7978  | .7988  |
| 111.....                    | .7905                                          | .7915  | .7924  | .7934  | .7943  | .7953  | .7962  | .7972  | .7981  | .7991  |
| 112.....                    | .7909                                          | .7919  | .7928  | .7938  | .7947  | .7957  | .7966  | .7976  | .7985  | .7995  |
| 113.....                    | .7912                                          | .7922  | .7931  | .7941  | .7950  | .7960  | .7970  | .7979  | .7989  | .7998  |
| 114.....                    | .7916                                          | .7926  | .7935  | .7945  | .7954  | .7964  | .7974  | .7983  | .7993  | .8002  |
| 115.....                    | .7920                                          | .7930  | .7939  | .7949  | .7958  | .7968  | .7977  | .7987  | .7996  | .8006  |
| 116.....                    | .7924                                          | .7934  | .7943  | .7953  | .7962  | .7972  | .7981  | .7991  | .8000  | .8010  |
| 117.....                    | .7928                                          | .7938  | .7947  | .7957  | .7966  | .7976  | .7985  | .7995  | .8004  | .8014  |
| 118.....                    | .7932                                          | .7942  | .7951  | .7961  | .7970  | .7980  | .7989  | .7999  | .8008  | .8018  |
| 119.....                    | .7935                                          | .7945  | .7954  | .7964  | .7973  | .7983  | .7992  | .8002  | .8011  | .8021  |
| 120.....                    | .7939                                          | .7949  | .7958  | .7968  | .7977  | .7987  | .7996  | .8006  | .8015  | .8025  |
| 121.....                    | .7943                                          | .7953  | .7962  | .7972  | .7981  | .7991  | .8000  | .8010  | .8019  | .8029  |
| 122.....                    | .7947                                          | .7957  | .7966  | .7976  | .7985  | .7995  | .8004  | .8014  | .8023  | .8033  |
| 123.....                    | .7950                                          | .7960  | .7969  | .7979  | .7988  | .7998  | .8007  | .8017  | .8026  | .8036  |
| 124.....                    | .7954                                          | .7964  | .7973  | .7983  | .7992  | .8002  | .8011  | .8021  | .8030  | .8040  |
| 125.....                    | .7958                                          | .7968  | .7977  | .7987  | .7996  | .8006  | .8015  | .8025  | .8034  | .8044  |
| 126.....                    | .7962                                          | .7971  | .7981  | .7990  | .8000  | .8009  | .8018  | .8028  | .8037  | .8047  |
| 127.....                    | .7966                                          | .7975  | .7985  | .7994  | .8004  | .8013  | .8022  | .8032  | .8041  | .8051  |
| 128.....                    | .7969                                          | .7979  | .7988  | .7998  | .8007  | .8017  | .8026  | .8036  | .8045  | .8055  |
| 129.....                    | .7973                                          | .7983  | .7992  | .8002  | .8011  | .8021  | .8030  | .8040  | .8049  | .8059  |
| 130.....                    | .7977                                          | .7987  | .7996  | .8006  | .8015  | .8025  | .8034  | .8044  | .8053  | .8063  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.780                                          | 0.781  | 0.782  | 0.783  | 0.784  | 0.785  | 0.786  | 0.787  | 0.788  | 0.789  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.7537                                         | 0.7548 | 0.7558 | 0.7569 | 0.7579 | 0.7590 | 0.7601 | 0.7611 | 0.7622 | 0.7632 |
| 1.....                      | .7542                                          | .7552  | .7563  | .7573  | .7584  | .7594  | .7605  | .7615  | .7625  | .7636  |
| 2.....                      | .7547                                          | .7557  | .7568  | .7578  | .7589  | .7599  | .7610  | .7620  | .7631  | .7641  |
| 3.....                      | .7552                                          | .7562  | .7573  | .7583  | .7594  | .7604  | .7615  | .7625  | .7636  | .7646  |
| 4.....                      | .7557                                          | .7567  | .7578  | .7588  | .7599  | .7609  | .7620  | .7630  | .7641  | .7651  |
| 5.....                      | .7561                                          | .7572  | .7582  | .7593  | .7603  | .7614  | .7625  | .7635  | .7646  | .7656  |
| 6.....                      | .7566                                          | .7576  | .7587  | .7597  | .7608  | .7618  | .7629  | .7639  | .7650  | .7660  |
| 7.....                      | .7570                                          | .7581  | .7591  | .7602  | .7612  | .7623  | .7634  | .7644  | .7655  | .7665  |
| 8.....                      | .7575                                          | .7585  | .7596  | .7606  | .7617  | .7627  | .7638  | .7648  | .7659  | .7669  |
| 9.....                      | .7580                                          | .7590  | .7601  | .7611  | .7622  | .7632  | .7643  | .7653  | .7664  | .7674  |
| 10.....                     | .7585                                          | .7595  | .7606  | .7616  | .7627  | .7637  | .7647  | .7658  | .7668  | .7679  |
| 11.....                     | .7589                                          | .7599  | .7610  | .7620  | .7631  | .7641  | .7651  | .7662  | .7672  | .7683  |
| 12.....                     | .7593                                          | .7603  | .7614  | .7624  | .7635  | .7645  | .7655  | .7666  | .7676  | .7687  |
| 13.....                     | .7598                                          | .7608  | .7619  | .7629  | .7640  | .7650  | .7660  | .7671  | .7681  | .7692  |
| 14.....                     | .7603                                          | .7613  | .7624  | .7634  | .7645  | .7655  | .7665  | .7676  | .7686  | .7697  |
| 15.....                     | .7607                                          | .7617  | .7628  | .7638  | .7649  | .7659  | .7669  | .7680  | .7690  | .7701  |
| 16.....                     | .7612                                          | .7622  | .7633  | .7643  | .7654  | .7664  | .7674  | .7685  | .7695  | .7706  |
| 17.....                     | .7617                                          | .7627  | .7638  | .7648  | .7658  | .7669  | .7679  | .7689  | .7699  | .7710  |
| 18.....                     | .7621                                          | .7631  | .7642  | .7652  | .7662  | .7673  | .7683  | .7693  | .7703  | .7714  |
| 19.....                     | .7625                                          | .7635  | .7646  | .7656  | .7666  | .7677  | .7687  | .7697  | .7707  | .7718  |
| 20.....                     | .7629                                          | .7639  | .7650  | .7660  | .7671  | .7681  | .7691  | .7702  | .7712  | .7723  |
| 21.....                     | .7634                                          | .7644  | .7655  | .7665  | .7675  | .7686  | .7696  | .7706  | .7716  | .7727  |
| 22.....                     | .7638                                          | .7648  | .7659  | .7669  | .7679  | .7690  | .7700  | .7710  | .7720  | .7731  |
| 23.....                     | .7642                                          | .7652  | .7663  | .7673  | .7684  | .7694  | .7704  | .7715  | .7725  | .7736  |
| 24.....                     | .7647                                          | .7657  | .7668  | .7678  | .7688  | .7699  | .7709  | .7719  | .7729  | .7740  |
| 25.....                     | .7651                                          | .7661  | .7672  | .7682  | .7692  | .7703  | .7713  | .7723  | .7733  | .7744  |
| 26.....                     | .7656                                          | .7666  | .7677  | .7687  | .7697  | .7708  | .7718  | .7728  | .7738  | .7749  |
| 27.....                     | .7660                                          | .7670  | .7681  | .7691  | .7701  | .7712  | .7722  | .7732  | .7742  | .7753  |
| 28.....                     | .7665                                          | .7675  | .7685  | .7696  | .7706  | .7716  | .7726  | .7736  | .7747  | .7757  |
| 29.....                     | .7669                                          | .7679  | .7689  | .7700  | .7710  | .7720  | .7730  | .7740  | .7751  | .7761  |
| 30.....                     | .7673                                          | .7683  | .7694  | .7704  | .7714  | .7725  | .7735  | .7745  | .7755  | .7766  |
| 31.....                     | .7677                                          | .7687  | .7698  | .7708  | .7718  | .7729  | .7739  | .7749  | .7759  | .7770  |
| 32.....                     | .7682                                          | .7692  | .7703  | .7713  | .7723  | .7734  | .7744  | .7754  | .7764  | .7775  |
| 33.....                     | .7686                                          | .7696  | .7707  | .7717  | .7727  | .7738  | .7748  | .7758  | .7768  | .7779  |
| 34.....                     | .7690                                          | .7700  | .7711  | .7721  | .7731  | .7742  | .7752  | .7762  | .7772  | .7783  |
| 35.....                     | .7695                                          | .7705  | .7715  | .7726  | .7736  | .7746  | .7756  | .7766  | .7777  | .7787  |
| 36.....                     | .7699                                          | .7709  | .7719  | .7730  | .7740  | .7750  | .7760  | .7770  | .7781  | .7791  |
| 37.....                     | .7703                                          | .7713  | .7723  | .7734  | .7744  | .7754  | .7764  | .7774  | .7785  | .7795  |
| 38.....                     | .7707                                          | .7717  | .7727  | .7738  | .7748  | .7758  | .7768  | .7778  | .7789  | .7799  |
| 39.....                     | .7711                                          | .7721  | .7731  | .7742  | .7752  | .7762  | .7772  | .7782  | .7793  | .7803  |
| 40.....                     | .7716                                          | .7726  | .7736  | .7746  | .7756  | .7767  | .7777  | .7787  | .7797  | .7807  |
| 41.....                     | .7720                                          | .7730  | .7740  | .7751  | .7761  | .7771  | .7781  | .7791  | .7802  | .7812  |
| 42.....                     | .7724                                          | .7734  | .7744  | .7755  | .7765  | .7775  | .7785  | .7795  | .7806  | .7816  |
| 43.....                     | .7728                                          | .7738  | .7748  | .7759  | .7769  | .7779  | .7789  | .7799  | .7810  | .7820  |
| 44.....                     | .7733                                          | .7743  | .7753  | .7763  | .7773  | .7784  | .7794  | .7804  | .7814  | .7824  |
| 45.....                     | .7737                                          | .7747  | .7757  | .7767  | .7777  | .7788  | .7798  | .7808  | .7818  | .7828  |
| 46.....                     | .7741                                          | .7751  | .7761  | .7771  | .7781  | .7792  | .7802  | .7812  | .7822  | .7832  |
| 47.....                     | .7746                                          | .7756  | .7766  | .7776  | .7786  | .7797  | .7807  | .7817  | .7827  | .7837  |
| 48.....                     | .7750                                          | .7760  | .7770  | .7780  | .7790  | .7801  | .7811  | .7821  | .7831  | .7841  |
| 49.....                     | .7755                                          | .7765  | .7775  | .7785  | .7795  | .7805  | .7815  | .7825  | .7835  | .7845  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.780                                          | 0.781  | 0.782  | 0.783  | 0.784  | 0.785  | 0.786  | 0.787  | 0.788  | 0.789  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 50.....                     | 0.7759                                         | 0.7769 | 0.7779 | 0.7789 | 0.7799 | 0.7810 | 0.7820 | 0.7830 | 0.7840 | 0.7850 |
| 51.....                     | .7763                                          | .7773  | .7783  | .7793  | .7803  | .7814  | .7824  | .7834  | .7844  | .7854  |
| 52.....                     | .7767                                          | .7777  | .7787  | .7797  | .7807  | .7818  | .7828  | .7838  | .7848  | .7858  |
| 53.....                     | .7771                                          | .7781  | .7791  | .7801  | .7811  | .7822  | .7832  | .7842  | .7852  | .7862  |
| 54.....                     | .7775                                          | .7785  | .7795  | .7805  | .7815  | .7826  | .7836  | .7846  | .7856  | .7866  |
| 55.....                     | .7779                                          | .7789  | .7799  | .7809  | .7819  | .7830  | .7840  | .7850  | .7860  | .7870  |
| 56.....                     | .7783                                          | .7793  | .7803  | .7813  | .7823  | .7834  | .7844  | .7854  | .7864  | .7874  |
| 57.....                     | .7788                                          | .7798  | .7808  | .7818  | .7828  | .7838  | .7848  | .7858  | .7868  | .7878  |
| 58.....                     | .7792                                          | .7802  | .7812  | .7822  | .7832  | .7842  | .7852  | .7862  | .7872  | .7882  |
| 59.....                     | .7796                                          | .7806  | .7816  | .7826  | .7836  | .7846  | .7856  | .7866  | .7876  | .7886  |
| 60.....                     | .7800                                          | .7810  | .7820  | .7830  | .7840  | .7850  | .7860  | .7870  | .7880  | .7890  |
| 61.....                     | .7804                                          | .7814  | .7824  | .7834  | .7844  | .7854  | .7864  | .7874  | .7884  | .7894  |
| 62.....                     | .7808                                          | .7818  | .7828  | .7838  | .7848  | .7858  | .7868  | .7878  | .7888  | .7898  |
| 63.....                     | .7813                                          | .7823  | .7833  | .7843  | .7853  | .7862  | .7872  | .7882  | .7892  | .7902  |
| 64.....                     | .7817                                          | .7827  | .7837  | .7847  | .7857  | .7866  | .7876  | .7886  | .7896  | .7906  |
| 65.....                     | .7821                                          | .7831  | .7841  | .7851  | .7861  | .7870  | .7880  | .7890  | .7900  | .7910  |
| 66.....                     | .7825                                          | .7835  | .7845  | .7855  | .7865  | .7874  | .7884  | .7894  | .7904  | .7914  |
| 67.....                     | .7829                                          | .7839  | .7849  | .7859  | .7869  | .7878  | .7888  | .7898  | .7908  | .7918  |
| 68.....                     | .7833                                          | .7843  | .7853  | .7863  | .7873  | .7882  | .7892  | .7902  | .7912  | .7922  |
| 69.....                     | .7837                                          | .7847  | .7857  | .7867  | .7877  | .7886  | .7896  | .7906  | .7916  | .7926  |
| 70.....                     | .7841                                          | .7851  | .7861  | .7871  | .7881  | .7890  | .7900  | .7910  | .7920  | .7930  |
| 71.....                     | .7845                                          | .7855  | .7865  | .7875  | .7885  | .7894  | .7904  | .7914  | .7924  | .7934  |
| 72.....                     | .7849                                          | .7859  | .7869  | .7879  | .7889  | .7898  | .7908  | .7918  | .7928  | .7938  |
| 73.....                     | .7853                                          | .7863  | .7873  | .7883  | .7893  | .7902  | .7912  | .7922  | .7932  | .7942  |
| 74.....                     | .7857                                          | .7867  | .7877  | .7887  | .7897  | .7906  | .7916  | .7926  | .7936  | .7946  |
| 75.....                     | .7861                                          | .7871  | .7881  | .7891  | .7901  | .7910  | .7920  | .7930  | .7940  | .7950  |
| 76.....                     | .7865                                          | .7875  | .7885  | .7895  | .7905  | .7914  | .7924  | .7934  | .7944  | .7954  |
| 77.....                     | .7869                                          | .7879  | .7889  | .7898  | .7908  | .7918  | .7928  | .7938  | .7947  | .7957  |
| 78.....                     | .7873                                          | .7883  | .7893  | .7902  | .7912  | .7922  | .7932  | .7942  | .7951  | .7961  |
| 79.....                     | .7877                                          | .7887  | .7897  | .7906  | .7916  | .7926  | .7936  | .7946  | .7955  | .7965  |
| 80.....                     | .7881                                          | .7891  | .7901  | .7910  | .7920  | .7930  | .7940  | .7950  | .7959  | .7969  |
| 81.....                     | .7885                                          | .7895  | .7905  | .7914  | .7924  | .7934  | .7944  | .7954  | .7963  | .7973  |
| 82.....                     | .7889                                          | .7899  | .7909  | .7918  | .7928  | .7938  | .7948  | .7958  | .7967  | .7977  |
| 83.....                     | .7893                                          | .7903  | .7913  | .7922  | .7932  | .7942  | .7952  | .7962  | .7971  | .7981  |
| 84.....                     | .7897                                          | .7907  | .7917  | .7926  | .7936  | .7946  | .7956  | .7966  | .7975  | .7985  |
| 85.....                     | .7901                                          | .7911  | .7921  | .7930  | .7940  | .7950  | .7960  | .7970  | .7979  | .7989  |
| 86.....                     | .7905                                          | .7915  | .7925  | .7934  | .7944  | .7954  | .7964  | .7974  | .7983  | .7993  |
| 87.....                     | .7909                                          | .7919  | .7929  | .7938  | .7948  | .7958  | .7968  | .7978  | .7987  | .7997  |
| 88.....                     | .7913                                          | .7923  | .7933  | .7942  | .7952  | .7962  | .7972  | .7982  | .7991  | .8001  |
| 89.....                     | .7917                                          | .7927  | .7937  | .7946  | .7956  | .7966  | .7976  | .7986  | .7995  | .8005  |
| 90.....                     | .7920                                          | .7930  | .7940  | .7949  | .7959  | .7969  | .7979  | .7989  | .7998  | .8008  |
| 91.....                     | .7924                                          | .7934  | .7944  | .7953  | .7963  | .7973  | .7983  | .7993  | .8002  | .8012  |
| 92.....                     | .7928                                          | .7938  | .7948  | .7957  | .7967  | .7977  | .7987  | .7997  | .8006  | .8016  |
| 93.....                     | .7932                                          | .7942  | .7952  | .7961  | .7971  | .7981  | .7991  | .8001  | .8010  | .8020  |
| 94.....                     | .7935                                          | .7945  | .7955  | .7964  | .7974  | .7984  | .7994  | .8004  | .8013  | .8023  |
| 95.....                     | .7939                                          | .7949  | .7958  | .7968  | .7978  | .7987  | .7997  | .8007  | .8017  | .8026  |
| 96.....                     | .7943                                          | .7953  | .7962  | .7972  | .7982  | .7991  | .8001  | .8011  | .8021  | .8030  |
| 97.....                     | .7947                                          | .7957  | .7966  | .7976  | .7986  | .7995  | .8005  | .8015  | .8025  | .8034  |
| 98.....                     | .7950                                          | .7960  | .7970  | .7979  | .7989  | .7999  | .8009  | .8019  | .8028  | .8038  |
| 99.....                     | .7954                                          | .7964  | .7974  | .7983  | .7993  | .8003  | .8013  | .8023  | .8032  | .8042  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.780                                          | 0.781  | 0.782  | 0.783  | 0.784  | 0.785  | 0.786  | 0.787  | 0.788  | 0.789  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 100.....                    | 0.7958                                         | 0.7968 | 0.7978 | 0.7987 | 0.7997 | 0.8007 | 0.8017 | 0.8027 | 0.8036 | 0.8046 |
| 101.....                    | .7962                                          | .7972  | .7982  | .7991  | .8001  | .8011  | .8021  | .8031  | .8040  | .8050  |
| 102.....                    | .7966                                          | .7976  | .7986  | .7995  | .8005  | .8015  | .8025  | .8035  | .8044  | .8054  |
| 103.....                    | .7970                                          | .7980  | .7990  | .7999  | .8009  | .8019  | .8029  | .8039  | .8048  | .8058  |
| 104.....                    | .7974                                          | .7984  | .7993  | .8003  | .8013  | .8022  | .8032  | .8042  | .8052  | .8061  |
| 105.....                    | .7978                                          | .7988  | .7997  | .8007  | .8017  | .8026  | .8036  | .8046  | .8056  | .8065  |
| 106.....                    | .7982                                          | .7992  | .8001  | .8011  | .8021  | .8030  | .8040  | .8050  | .8060  | .8069  |
| 107.....                    | .7986                                          | .7996  | .8005  | .8015  | .8025  | .8034  | .8044  | .8054  | .8064  | .8073  |
| 108.....                    | .7990                                          | .8000  | .8009  | .8019  | .8029  | .8038  | .8048  | .8058  | .8068  | .8077  |
| 109.....                    | .7994                                          | .8004  | .8013  | .8023  | .8033  | .8042  | .8052  | .8062  | .8072  | .8081  |
| 110.....                    | .7998                                          | .8008  | .8017  | .8027  | .8036  | .8046  | .8056  | .8065  | .8075  | .8084  |
| 111.....                    | .8001                                          | .8011  | .8020  | .8030  | .8040  | .8049  | .8059  | .8069  | .8079  | .8088  |
| 112.....                    | .8005                                          | .8015  | .8024  | .8034  | .8044  | .8053  | .8063  | .8073  | .8083  | .8092  |
| 113.....                    | .8008                                          | .8018  | .8027  | .8037  | .8047  | .8056  | .8066  | .8076  | .8086  | .8095  |
| 114.....                    | .8012                                          | .8022  | .8031  | .8041  | .8051  | .8060  | .8070  | .8080  | .8090  | .8099  |
| 115.....                    | .8015                                          | .8025  | .8034  | .8044  | .8054  | .8063  | .8073  | .8083  | .8093  | .8102  |
| 116.....                    | .8019                                          | .8029  | .8038  | .8048  | .8058  | .8067  | .8077  | .8087  | .8097  | .8106  |
| 117.....                    | .8023                                          | .8033  | .8042  | .8052  | .8062  | .8071  | .8081  | .8091  | .8101  | .8110  |
| 118.....                    | .8027                                          | .8037  | .8046  | .8056  | .8065  | .8075  | .8085  | .8094  | .8104  | .8113  |
| 119.....                    | .8030                                          | .8040  | .8049  | .8059  | .8069  | .8078  | .8088  | .8098  | .8108  | .8117  |
| 120.....                    | .8034                                          | .8044  | .8053  | .8063  | .8073  | .8082  | .8092  | .8102  | .8112  | .8121  |
| 121.....                    | .8038                                          | .8048  | .8057  | .8067  | .8077  | .8086  | .8096  | .8106  | .8116  | .8125  |
| 122.....                    | .8042                                          | .8052  | .8061  | .8071  | .8081  | .8090  | .8100  | .8110  | .8120  | .8129  |
| 123.....                    | .8045                                          | .8055  | .8064  | .8074  | .8084  | .8093  | .8103  | .8113  | .8123  | .8132  |
| 124.....                    | .8049                                          | .8059  | .8068  | .8078  | .8088  | .8097  | .8107  | .8117  | .8127  | .8136  |
| 125.....                    | .8053                                          | .8063  | .8072  | .8082  | .8091  | .8101  | .8111  | .8120  | .8130  | .8139  |
| 126.....                    | .8056                                          | .8066  | .8075  | .8085  | .8094  | .8104  | .8114  | .8123  | .8133  | .8142  |
| 127.....                    | .8060                                          | .8070  | .8079  | .8089  | .8098  | .8108  | .8118  | .8127  | .8137  | .8146  |
| 128.....                    | .8064                                          | .8074  | .8083  | .8093  | .8102  | .8112  | .8121  | .8131  | .8140  | .8150  |
| 129.....                    | .8068                                          | .8078  | .8087  | .8097  | .8106  | .8116  | .8125  | .8135  | .8144  | .8154  |
| 130.....                    | .8072                                          | .8082  | .8091  | .8101  | .8110  | .8120  | .8129  | .8139  | .8148  | .8158  |
| 131.....                    | .8076                                          | .8086  | .8095  | .8105  | .8114  | .8124  | .8133  | .8143  | .8152  | .8162  |
| 132.....                    | .8079                                          | .8089  | .8098  | .8108  | .8117  | .8127  | .8136  | .8146  | .8155  | .8165  |
| 133.....                    | .8083                                          | .8093  | .8102  | .8112  | .8121  | .8131  | .8140  | .8150  | .8159  | .8169  |
| 134.....                    | .8087                                          | .8097  | .8106  | .8116  | .8125  | .8135  | .8144  | .8154  | .8163  | .8173  |
| 135.....                    | .8090                                          | .8100  | .8109  | .8119  | .8128  | .8138  | .8147  | .8157  | .8166  | .8176  |
| 136.....                    | .8094                                          | .8104  | .8113  | .8123  | .8132  | .8142  | .8151  | .8161  | .8170  | .8180  |
| 137.....                    | .8098                                          | .8108  | .8117  | .8127  | .8136  | .8146  | .8155  | .8165  | .8174  | .8184  |
| 138.....                    | .8101                                          | .8111  | .8120  | .8130  | .8139  | .8149  | .8158  | .8168  | .8177  | .8187  |
| 139.....                    | .8105                                          | .8115  | .8124  | .8134  | .8143  | .8153  | .8162  | .8172  | .8181  | .8191  |
| 140.....                    | .8109                                          | .8119  | .8128  | .8138  | .8147  | .8157  | .8166  | .8176  | .8185  | .8195  |
| 141.....                    | .8112                                          | .8122  | .8131  | .8141  | .8150  | .8160  | .8169  | .8179  | .8188  | .8198  |
| 142.....                    | .8116                                          | .8126  | .8135  | .8145  | .8154  | .8164  | .8173  | .8183  | .8192  | .8202  |
| 143.....                    | .8119                                          | .8129  | .8138  | .8148  | .8157  | .8167  | .8176  | .8186  | .8195  | .8205  |
| 144.....                    | .8123                                          | .8133  | .8142  | .8152  | .8161  | .8171  | .8180  | .8190  | .8199  | .8209  |
| 145.....                    | .8127                                          | .8137  | .8146  | .8156  | .8165  | .8175  | .8184  | .8194  | .8203  | .8213  |
| 146.....                    | .8130                                          | .8140  | .8149  | .8159  | .8168  | .8178  | .8187  | .8197  | .8206  | .8216  |
| 147.....                    | .8134                                          | .8144  | .8153  | .8163  | .8172  | .8182  | .8191  | .8201  | .8210  | .8220  |
| 148.....                    | .8137                                          | .8147  | .8156  | .8166  | .8175  | .8185  | .8194  | .8204  | .8213  | .8223  |
| 149.....                    | .8141                                          | .8151  | .8160  | .8170  | .8179  | .8189  | .8198  | .8208  | .8217  | .8227  |
| 150.....                    | .8144                                          | .8154  | .8163  | .8173  | .8182  | .8192  | .8201  | .8211  | .8220  | .8230  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.790                                          | 0.791  | 0.792  | 0.793  | 0.794  | 0.795  | 0.796  | 0.797  | 0.798  | 0.799  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.7643                                         | 0.7654 | 0.7664 | 0.7675 | 0.7685 | 0.7696 | 0.7707 | 0.7717 | 0.7728 | 0.7738 |
| 1.....                      | .7647                                          | .7658  | .7668  | .7679  | .7689  | .7700  | .7711  | .7721  | .7732  | .7742  |
| 2.....                      | .7652                                          | .7663  | .7673  | .7684  | .7694  | .7705  | .7716  | .7726  | .7737  | .7747  |
| 3.....                      | .7657                                          | .7667  | .7678  | .7688  | .7699  | .7709  | .7720  | .7730  | .7741  | .7751  |
| 4.....                      | .7662                                          | .7672  | .7683  | .7693  | .7704  | .7714  | .7725  | .7735  | .7746  | .7756  |
| 5.....                      | .7667                                          | .7677  | .7688  | .7698  | .7709  | .7719  | .7730  | .7740  | .7751  | .7761  |
| 6.....                      | .7671                                          | .7681  | .7692  | .7702  | .7713  | .7723  | .7734  | .7744  | .7755  | .7765  |
| 7.....                      | .7676                                          | .7686  | .7697  | .7707  | .7718  | .7728  | .7739  | .7749  | .7760  | .7770  |
| 8.....                      | .7680                                          | .7690  | .7701  | .7711  | .7722  | .7732  | .7743  | .7753  | .7764  | .7774  |
| 9.....                      | .7685                                          | .7695  | .7706  | .7716  | .7727  | .7737  | .7747  | .7758  | .7768  | .7779  |
| 10.....                     | .7689                                          | .7699  | .7710  | .7720  | .7731  | .7741  | .7751  | .7762  | .7772  | .7783  |
| 11.....                     | .7693                                          | .7703  | .7714  | .7724  | .7735  | .7745  | .7756  | .7766  | .7777  | .7787  |
| 12.....                     | .7698                                          | .7708  | .7719  | .7729  | .7740  | .7750  | .7760  | .7771  | .7781  | .7792  |
| 13.....                     | .7702                                          | .7712  | .7723  | .7733  | .7744  | .7754  | .7765  | .7775  | .7786  | .7796  |
| 14.....                     | .7707                                          | .7717  | .7728  | .7738  | .7749  | .7759  | .7770  | .7780  | .7791  | .7801  |
| 15.....                     | .7711                                          | .7721  | .7732  | .7742  | .7753  | .7763  | .7774  | .7784  | .7795  | .7805  |
| 16.....                     | .7716                                          | .7726  | .7737  | .7747  | .7758  | .7768  | .7778  | .7789  | .7799  | .7810  |
| 17.....                     | .7720                                          | .7730  | .7741  | .7751  | .7762  | .7772  | .7782  | .7793  | .7803  | .7814  |
| 18.....                     | .7724                                          | .7734  | .7745  | .7755  | .7766  | .7776  | .7786  | .7797  | .7807  | .7818  |
| 19.....                     | .7728                                          | .7738  | .7749  | .7759  | .7770  | .7780  | .7790  | .7801  | .7811  | .7822  |
| 20.....                     | .7733                                          | .7743  | .7754  | .7764  | .7774  | .7785  | .7795  | .7805  | .7816  | .7826  |
| 21.....                     | .7737                                          | .7747  | .7758  | .7768  | .7779  | .7789  | .7799  | .7810  | .7820  | .7831  |
| 22.....                     | .7741                                          | .7751  | .7762  | .7772  | .7783  | .7793  | .7803  | .7814  | .7824  | .7835  |
| 23.....                     | .7746                                          | .7756  | .7767  | .7777  | .7787  | .7798  | .7808  | .7818  | .7828  | .7839  |
| 24.....                     | .7750                                          | .7760  | .7771  | .7781  | .7791  | .7802  | .7812  | .7822  | .7832  | .7843  |
| 25.....                     | .7754                                          | .7764  | .7775  | .7785  | .7796  | .7806  | .7816  | .7827  | .7837  | .7848  |
| 26.....                     | .7759                                          | .7769  | .7780  | .7790  | .7800  | .7811  | .7821  | .7831  | .7841  | .7852  |
| 27.....                     | .7763                                          | .7773  | .7784  | .7794  | .7804  | .7815  | .7825  | .7835  | .7845  | .7856  |
| 28.....                     | .7767                                          | .7777  | .7788  | .7798  | .7808  | .7819  | .7829  | .7839  | .7849  | .7860  |
| 29.....                     | .7771                                          | .7781  | .7792  | .7802  | .7812  | .7823  | .7833  | .7843  | .7853  | .7864  |
| 30.....                     | .7776                                          | .7786  | .7797  | .7807  | .7817  | .7828  | .7838  | .7848  | .7858  | .7869  |
| 31.....                     | .7780                                          | .7790  | .7801  | .7811  | .7821  | .7832  | .7842  | .7852  | .7862  | .7873  |
| 32.....                     | .7785                                          | .7795  | .7805  | .7816  | .7826  | .7836  | .7846  | .7856  | .7867  | .7877  |
| 33.....                     | .7789                                          | .7799  | .7809  | .7820  | .7830  | .7840  | .7850  | .7860  | .7871  | .7881  |
| 34.....                     | .7793                                          | .7803  | .7813  | .7824  | .7834  | .7844  | .7854  | .7864  | .7875  | .7885  |
| 35.....                     | .7797                                          | .7807  | .7817  | .7828  | .7838  | .7848  | .7858  | .7868  | .7879  | .7889  |
| 36.....                     | .7801                                          | .7811  | .7821  | .7832  | .7842  | .7852  | .7862  | .7872  | .7883  | .7893  |
| 37.....                     | .7805                                          | .7815  | .7825  | .7836  | .7846  | .7856  | .7866  | .7876  | .7887  | .7897  |
| 38.....                     | .7809                                          | .7819  | .7829  | .7840  | .7850  | .7860  | .7870  | .7880  | .7891  | .7901  |
| 39.....                     | .7813                                          | .7823  | .7833  | .7844  | .7854  | .7864  | .7874  | .7884  | .7895  | .7905  |
| 40.....                     | .7817                                          | .7827  | .7837  | .7848  | .7858  | .7868  | .7878  | .7888  | .7899  | .7909  |
| 41.....                     | .7822                                          | .7832  | .7842  | .7853  | .7863  | .7873  | .7883  | .7893  | .7904  | .7914  |
| 42.....                     | .7826                                          | .7836  | .7846  | .7857  | .7867  | .7877  | .7887  | .7897  | .7908  | .7918  |
| 43.....                     | .7830                                          | .7840  | .7850  | .7861  | .7871  | .7881  | .7891  | .7901  | .7912  | .7922  |
| 44.....                     | .7834                                          | .7844  | .7854  | .7865  | .7875  | .7885  | .7895  | .7905  | .7916  | .7926  |
| 45.....                     | .7838                                          | .7848  | .7858  | .7869  | .7879  | .7889  | .7899  | .7909  | .7920  | .7930  |
| 46.....                     | .7842                                          | .7852  | .7862  | .7873  | .7883  | .7893  | .7903  | .7913  | .7924  | .7934  |
| 47.....                     | .7847                                          | .7857  | .7867  | .7877  | .7887  | .7898  | .7908  | .7918  | .7928  | .7938  |
| 48.....                     | .7851                                          | .7861  | .7871  | .7881  | .7891  | .7902  | .7912  | .7922  | .7932  | .7942  |
| 49.....                     | .7855                                          | .7865  | .7875  | .7885  | .7895  | .7906  | .7916  | .7926  | .7936  | .7946  |
| 50.....                     | .7860                                          | .7870  | .7880  | .7890  | .7900  | .7910  | .7920  | .7930  | .7940  | .7950  |
| 51.....                     | .7864                                          | .7874  | .7884  | .7894  | .7904  | .7914  | .7924  | .7934  | .7944  | .7954  |
| 52.....                     | .7868                                          | .7878  | .7888  | .7898  | .7908  | .7918  | .7928  | .7938  | .7948  | .7958  |
| 53.....                     | .7872                                          | .7882  | .7892  | .7902  | .7912  | .7922  | .7932  | .7942  | .7952  | .7962  |
| 54.....                     | .7876                                          | .7886  | .7896  | .7906  | .7916  | .7926  | .7936  | .7946  | .7956  | .7966  |
| 55.....                     | .7880                                          | .7890  | .7900  | .7910  | .7920  | .7930  | .7940  | .7950  | .7960  | .7970  |
| 56.....                     | .7884                                          | .7894  | .7904  | .7914  | .7924  | .7934  | .7944  | .7954  | .7964  | .7974  |
| 57.....                     | .7888                                          | .7898  | .7908  | .7918  | .7928  | .7938  | .7948  | .7958  | .7968  | .7978  |
| 58.....                     | .7892                                          | .7902  | .7912  | .7922  | .7932  | .7942  | .7952  | .7962  | .7972  | .7982  |
| 59.....                     | .7896                                          | .7906  | .7916  | .7926  | .7936  | .7946  | .7956  | .7966  | .7976  | .7986  |
| 60.....                     | .7900                                          | .7910  | .7920  | .7930  | .7940  | .7950  | .7960  | .7970  | .7980  | .7990  |
| 61.....                     | .7904                                          | .7914  | .7924  | .7934  | .7944  | .7954  | .7964  | .7974  | .7984  | .7994  |
| 62.....                     | .7908                                          | .7918  | .7928  | .7938  | .7948  | .7958  | .7968  | .7978  | .7988  | .7998  |
| 63.....                     | .7912                                          | .7922  | .7932  | .7942  | .7952  | .7962  | .7972  | .7982  | .7992  | .8002  |
| 64.....                     | .7916                                          | .7926  | .7936  | .7946  | .7956  | .7966  | .7976  | .7986  | .7996  | .8006  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.790                                          | 0.791  | 0.792  | 0.793  | 0.794  | 0.795  | 0.796  | 0.797  | 0.798  | 0.799  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                     | 0.7920                                         | 0.7930 | 0.7940 | 0.7950 | 0.7960 | 0.7970 | 0.7980 | 0.7990 | 0.8000 | 0.8010 |
| 66.....                     | .7924                                          | .7934  | .7944  | .7954  | .7964  | .7974  | .7984  | .7994  | .8004  | .8014  |
| 67.....                     | .7928                                          | .7938  | .7948  | .7958  | .7968  | .7978  | .7988  | .7998  | .8008  | .8018  |
| 68.....                     | .7932                                          | .7942  | .7952  | .7962  | .7972  | .7981  | .7991  | .8001  | .8011  | .8021  |
| 69.....                     | .7936                                          | .7946  | .7956  | .7966  | .7976  | .7985  | .7995  | .8005  | .8015  | .8025  |
| 70.....                     | .7940                                          | .7950  | .7960  | .7970  | .7980  | .7989  | .7999  | .8009  | .8019  | .8029  |
| 71.....                     | .7944                                          | .7954  | .7964  | .7974  | .7984  | .7993  | .8003  | .8013  | .8023  | .8033  |
| 72.....                     | .7948                                          | .7958  | .7968  | .7978  | .7988  | .7997  | .8007  | .8017  | .8027  | .8037  |
| 73.....                     | .7952                                          | .7962  | .7972  | .7982  | .7992  | .8001  | .8011  | .8021  | .8031  | .8041  |
| 74.....                     | .7956                                          | .7966  | .7976  | .7986  | .7996  | .8005  | .8015  | .8025  | .8035  | .8045  |
| 75.....                     | .7960                                          | .7970  | .7980  | .7990  | .8000  | .8009  | .8019  | .8029  | .8039  | .8049  |
| 76.....                     | .7964                                          | .7974  | .7984  | .7994  | .8004  | .8013  | .8023  | .8033  | .8043  | .8053  |
| 77.....                     | .7967                                          | .7977  | .7987  | .7997  | .8007  | .8016  | .8026  | .8036  | .8046  | .8056  |
| 78.....                     | .7971                                          | .7981  | .7991  | .8001  | .8011  | .8020  | .8030  | .8040  | .8050  | .8060  |
| 79.....                     | .7975                                          | .7985  | .7995  | .8005  | .8015  | .8024  | .8034  | .8044  | .8054  | .8064  |
| 80.....                     | .7979                                          | .7989  | .7999  | .8009  | .8019  | .8028  | .8038  | .8048  | .8058  | .8068  |
| 81.....                     | .7983                                          | .7993  | .8003  | .8013  | .8023  | .8032  | .8042  | .8052  | .8062  | .8072  |
| 82.....                     | .7987                                          | .7997  | .8007  | .8017  | .8027  | .8036  | .8046  | .8056  | .8066  | .8076  |
| 83.....                     | .7991                                          | .8001  | .8011  | .8021  | .8031  | .8040  | .8050  | .8060  | .8070  | .8080  |
| 84.....                     | .7995                                          | .8005  | .8015  | .8025  | .8035  | .8044  | .8054  | .8064  | .8074  | .8084  |
| 85.....                     | .7999                                          | .8009  | .8019  | .8029  | .8039  | .8048  | .8058  | .8068  | .8078  | .8088  |
| 86.....                     | .8003                                          | .8013  | .8023  | .8033  | .8042  | .8052  | .8062  | .8072  | .8082  | .8091  |
| 87.....                     | .8007                                          | .8017  | .8027  | .8037  | .8046  | .8056  | .8066  | .8076  | .8086  | .8095  |
| 88.....                     | .8011                                          | .8021  | .8031  | .8041  | .8050  | .8060  | .8070  | .8080  | .8090  | .8099  |
| 89.....                     | .8015                                          | .8025  | .8035  | .8044  | .8054  | .8064  | .8074  | .8084  | .8093  | .8103  |
| 90.....                     | .8018                                          | .8028  | .8038  | .8047  | .8057  | .8067  | .8077  | .8087  | .8096  | .8106  |
| 91.....                     | .8022                                          | .8032  | .8042  | .8051  | .8061  | .8071  | .8081  | .8091  | .8100  | .8110  |
| 92.....                     | .8025                                          | .8036  | .8045  | .8055  | .8065  | .8074  | .8084  | .8094  | .8104  | .8113  |
| 93.....                     | .8030                                          | .8040  | .8049  | .8059  | .8069  | .8078  | .8088  | .8098  | .8108  | .8117  |
| 94.....                     | .8033                                          | .8043  | .8053  | .8062  | .8072  | .8082  | .8092  | .8102  | .8111  | .8121  |
| 95.....                     | .8036                                          | .8046  | .8056  | .8065  | .8075  | .8085  | .8095  | .8105  | .8114  | .8124  |
| 96.....                     | .8040                                          | .8050  | .8059  | .8069  | .8079  | .8088  | .8098  | .8108  | .8118  | .8127  |
| 97.....                     | .8044                                          | .8054  | .8063  | .8073  | .8083  | .8092  | .8102  | .8112  | .8122  | .8131  |
| 98.....                     | .8048                                          | .8058  | .8067  | .8077  | .8087  | .8096  | .8106  | .8116  | .8126  | .8135  |
| 99.....                     | .8052                                          | .8062  | .8071  | .8081  | .8091  | .8100  | .8110  | .8120  | .8130  | .8139  |
| 100.....                    | .8056                                          | .8066  | .8075  | .8085  | .8095  | .8104  | .8114  | .8124  | .8134  | .8143  |
| 101.....                    | .8060                                          | .8070  | .8079  | .8089  | .8099  | .8108  | .8118  | .8128  | .8138  | .8147  |
| 102.....                    | .8064                                          | .8074  | .8083  | .8093  | .8103  | .8112  | .8122  | .8132  | .8142  | .8151  |
| 103.....                    | .8068                                          | .8078  | .8087  | .8097  | .8107  | .8116  | .8126  | .8136  | .8146  | .8155  |
| 104.....                    | .8071                                          | .8081  | .8090  | .8100  | .8110  | .8119  | .8129  | .8139  | .8149  | .8158  |
| 105.....                    | .8075                                          | .8085  | .8094  | .8104  | .8114  | .8123  | .8133  | .8143  | .8153  | .8162  |
| 106.....                    | .8079                                          | .8089  | .8098  | .8108  | .8118  | .8127  | .8137  | .8147  | .8157  | .8166  |
| 107.....                    | .8083                                          | .8093  | .8102  | .8112  | .8122  | .8131  | .8141  | .8151  | .8161  | .8170  |
| 108.....                    | .8087                                          | .8097  | .8106  | .8116  | .8126  | .8135  | .8145  | .8155  | .8165  | .8174  |
| 109.....                    | .8091                                          | .8101  | .8110  | .8120  | .8129  | .8139  | .8149  | .8158  | .8168  | .8177  |
| 110.....                    | .8094                                          | .8104  | .8113  | .8123  | .8133  | .8142  | .8152  | .8162  | .8172  | .8181  |
| 111.....                    | .8098                                          | .8108  | .8117  | .8127  | .8136  | .8146  | .8156  | .8165  | .8175  | .8184  |
| 112.....                    | .8102                                          | .8112  | .8121  | .8131  | .8140  | .8150  | .8160  | .8169  | .8179  | .8188  |
| 113.....                    | .8105                                          | .8115  | .8124  | .8134  | .8144  | .8153  | .8163  | .8173  | .8183  | .8192  |
| 114.....                    | .8109                                          | .8119  | .8128  | .8138  | .8147  | .8157  | .8166  | .8176  | .8186  | .8195  |
| 115.....                    | .8112                                          | .8122  | .8131  | .8141  | .8151  | .8160  | .8170  | .8180  | .8190  | .8199  |
| 116.....                    | .8116                                          | .8126  | .8135  | .8145  | .8155  | .8164  | .8174  | .8184  | .8194  | .8203  |
| 117.....                    | .8120                                          | .8130  | .8139  | .8149  | .8159  | .8168  | .8178  | .8188  | .8198  | .8207  |
| 118.....                    | .8123                                          | .8133  | .8142  | .8152  | .8162  | .8171  | .8181  | .8191  | .8201  | .8210  |
| 119.....                    | .8127                                          | .8137  | .8146  | .8156  | .8166  | .8175  | .8185  | .8195  | .8205  | .8214  |
| 120.....                    | .8131                                          | .8141  | .8150  | .8160  | .8169  | .8179  | .8189  | .8198  | .8208  | .8217  |
| 121.....                    | .8135                                          | .8145  | .8154  | .8164  | .8173  | .8183  | .8193  | .8202  | .8212  | .8221  |
| 122.....                    | .8139                                          | .8149  | .8158  | .8168  | .8177  | .8187  | .8197  | .8206  | .8216  | .8225  |
| 123.....                    | .8142                                          | .8152  | .8161  | .8171  | .8180  | .8190  | .8200  | .8209  | .8219  | .8228  |
| 124.....                    | .8146                                          | .8156  | .8165  | .8175  | .8184  | .8194  | .8204  | .8213  | .8223  | .8232  |
| 125.....                    | .8149                                          | .8159  | .8168  | .8178  | .8187  | .8197  | .8207  | .8216  | .8226  | .8235  |
| 126.....                    | .8152                                          | .8162  | .8171  | .8181  | .8190  | .8200  | .8210  | .8219  | .8229  | .8238  |
| 127.....                    | .8156                                          | .8166  | .8175  | .8185  | .8194  | .8204  | .8214  | .8223  | .8233  | .8242  |
| 128.....                    | .8159                                          | .8169  | .8178  | .8188  | .8197  | .8207  | .8217  | .8226  | .8236  | .8245  |
| 129.....                    | .8163                                          | .8173  | .8182  | .8192  | .8201  | .8211  | .8221  | .8230  | .8240  | .8249  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed tempera-<br>ture in ° F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                   | 0.790                                          | 0.791  | 0.792  | 0.793  | 0.794  | 0.795  | 0.796  | 0.797  | 0.798  | 0.799  |
|                                   | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 130.....                          | 0.8167                                         | 0.8177 | 0.8186 | 0.8196 | 0.8205 | 0.8215 | 0.8225 | 0.8234 | 0.8244 | 0.8253 |
| 131.....                          | .8171                                          | .8181  | .8190  | .8200  | .8209  | .8219  | .8228  | .8238  | .8247  | .8257  |
| 132.....                          | .8174                                          | .8184  | .8193  | .8203  | .8212  | .8222  | .8232  | .8241  | .8251  | .8260  |
| 133.....                          | .8178                                          | .8188  | .8197  | .8207  | .8216  | .8226  | .8236  | .8245  | .8255  | .8264  |
| 134.....                          | .8182                                          | .8192  | .8201  | .8211  | .8220  | .8230  | .8240  | .8249  | .8259  | .8268  |
| 135.....                          | .8185                                          | .8195  | .8204  | .8214  | .8223  | .8233  | .8243  | .8252  | .8262  | .8271  |
| 136.....                          | .8189                                          | .8199  | .8208  | .8218  | .8227  | .8237  | .8247  | .8256  | .8266  | .8275  |
| 137.....                          | .8193                                          | .8203  | .8212  | .8222  | .8231  | .8241  | .8250  | .8260  | .8269  | .8279  |
| 138.....                          | .8196                                          | .8206  | .8215  | .8225  | .8234  | .8244  | .8253  | .8263  | .8272  | .8282  |
| 139.....                          | .8200                                          | .8210  | .8219  | .8229  | .8238  | .8248  | .8257  | .8267  | .8276  | .8286  |
| 140.....                          | .8204                                          | .8214  | .8223  | .8233  | .8242  | .8252  | .8261  | .8271  | .8280  | .8290  |
| 141.....                          | .8207                                          | .8217  | .8226  | .8236  | .8245  | .8255  | .8265  | .8274  | .8284  | .8293  |
| 142.....                          | .8211                                          | .8221  | .8230  | .8240  | .8249  | .8259  | .8269  | .8278  | .8288  | .8297  |
| 143.....                          | .8214                                          | .8224  | .8233  | .8243  | .8252  | .8262  | .8272  | .8281  | .8291  | .8300  |
| 144.....                          | .8218                                          | .8228  | .8237  | .8247  | .8256  | .8266  | .8276  | .8285  | .8295  | .8304  |
| 145.....                          | .8222                                          | .8232  | .8241  | .8251  | .8260  | .8270  | .8280  | .8289  | .8299  | .8308  |
| 146.....                          | .8225                                          | .8235  | .8244  | .8254  | .8263  | .8273  | .8283  | .8292  | .8302  | .8311  |
| 147.....                          | .8229                                          | .8239  | .8248  | .8258  | .8267  | .8277  | .8287  | .8296  | .8306  | .8315  |
| 148.....                          | .8232                                          | .8242  | .8251  | .8261  | .8270  | .8280  | .8290  | .8299  | .8309  | .8318  |
| 149.....                          | .8236                                          | .8246  | .8255  | .8265  | .8274  | .8284  | .8293  | .8303  | .8312  | .8322  |
| 150.....                          | .8239                                          | .8249  | .8258  | .8268  | .8277  | .8287  | .8297  | .8306  | .8316  | .8325  |
| 151.....                          | .8243                                          | .8253  | .8262  | .8272  | .8281  | .8291  | .8301  | .8310  | .8320  | .8329  |
| 152.....                          | .8246                                          | .8256  | .8265  | .8275  | .8284  | .8294  | .8304  | .8313  | .8323  | .8332  |
| 153.....                          | .8250                                          | .8260  | .8269  | .8279  | .8288  | .8298  | .8308  | .8317  | .8327  | .8336  |
| 154.....                          | .8254                                          | .8264  | .8273  | .8283  | .8292  | .8302  | .8312  | .8321  | .8331  | .8340  |
| 155.....                          | .8257                                          | .8267  | .8276  | .8286  | .8295  | .8305  | .8315  | .8324  | .8334  | .8343  |
| 156.....                          | .8261                                          | .8271  | .8280  | .8290  | .8299  | .8309  | .8319  | .8328  | .8338  | .8347  |
| 157.....                          | .8264                                          | .8274  | .8283  | .8293  | .8302  | .8312  | .8322  | .8331  | .8341  | .8350  |
| 158.....                          | .8268                                          | .8278  | .8287  | .8297  | .8306  | .8316  | .8325  | .8335  | .8344  | .8354  |
| 159.....                          | .8271                                          | .8281  | .8290  | .8300  | .8309  | .8319  | .8329  | .8338  | .8348  | .8357  |
| 160.....                          | .8275                                          | .8285  | .8294  | .8304  | .8313  | .8323  | .8332  | .8342  | .8351  | .8361  |
| 161.....                          | .8278                                          | .8288  | .8297  | .8307  | .8316  | .8326  | .8335  | .8345  | .8354  | .8364  |
| 162.....                          | .8282                                          | .8292  | .8301  | .8311  | .8320  | .8330  | .8339  | .8349  | .8358  | .8368  |
| 163.....                          | .8285                                          | .8295  | .8304  | .8314  | .8323  | .8333  | .8342  | .8352  | .8361  | .8371  |
| 164.....                          | .8289                                          | .8299  | .8308  | .8318  | .8327  | .8337  | .8346  | .8356  | .8365  | .8375  |
| 165.....                          | .8293                                          | .8303  | .8312  | .8322  | .8331  | .8341  | .8350  | .8360  | .8369  | .8379  |
| 166.....                          | .8296                                          | .8306  | .8315  | .8325  | .8334  | .8344  | .8353  | .8363  | .8372  | .8382  |
| 167.....                          | .8300                                          | .8310  | .8319  | .8329  | .8338  | .8348  | .8357  | .8367  | .8376  | .8386  |
| 168.....                          | .8303                                          | .8313  | .8322  | .8332  | .8341  | .8351  | .8360  | .8370  | .8379  | .8389  |
| 169.....                          | .8307                                          | .8317  | .8326  | .8336  | .8345  | .8355  | .8364  | .8374  | .8383  | .8393  |
| 170.....                          | .8311                                          | .8321  | .8330  | .8340  | .8349  | .8359  | .8368  | .8378  | .8387  | .8397  |
| 171.....                          | .8314                                          | .8324  | .8333  | .8343  | .8352  | .8362  | .8371  | .8381  | .8390  | .8400  |
| 172.....                          | .8318                                          | .8328  | .8337  | .8347  | .8356  | .8366  | .8375  | .8385  | .8394  | .8404  |
| 173.....                          | .8321                                          | .8331  | .8340  | .8350  | .8359  | .8369  | .8378  | .8388  | .8397  | .8407  |
| 174.....                          | .8325                                          | .8335  | .8344  | .8354  | .8363  | .8373  | .8382  | .8392  | .8401  | .8411  |
| 175.....                          | .8328                                          | .8338  | .8347  | .8357  | .8366  | .8376  | .8385  | .8395  | .8404  | .8414  |
| 176.....                          | .8331                                          | .8341  | .8350  | .8360  | .8369  | .8379  | .8388  | .8398  | .8407  | .8417  |
| 177.....                          | .8335                                          | .8345  | .8354  | .8364  | .8373  | .8383  | .8392  | .8402  | .8411  | .8421  |
| 178.....                          | .8339                                          | .8349  | .8358  | .8368  | .8377  | .8387  | .8396  | .8406  | .8415  | .8425  |
| 179.....                          | .8342                                          | .8352  | .8361  | .8371  | .8380  | .8390  | .8399  | .8409  | .8418  | .8428  |
| 180.....                          | .8346                                          | .8356  | .8365  | .8375  | .8384  | .8394  | .8403  | .8413  | .8422  | .8432  |
| 181.....                          | .8349                                          | .8359  | .8368  | .8378  | .8387  | .8397  | .8406  | .8416  | .8425  | .8435  |
| 182.....                          | .8353                                          | .8363  | .8372  | .8382  | .8391  | .8401  | .8410  | .8420  | .8429  | .8439  |
| 183.....                          | .8356                                          | .8366  | .8375  | .8385  | .8394  | .8404  | .8413  | .8423  | .8432  | .8442  |
| 184.....                          | .8360                                          | .8370  | .8379  | .8389  | .8398  | .8408  | .8417  | .8427  | .8436  | .8446  |
| 185.....                          | .8363                                          | .8373  | .8382  | .8392  | .8401  | .8411  | .8420  | .8430  | .8439  | .8449  |
| 186.....                          | .8367                                          | .8377  | .8386  | .8396  | .8405  | .8415  | .8424  | .8434  | .8443  | .8453  |
| 187.....                          | .8370                                          | .8380  | .8389  | .8399  | .8408  | .8418  | .8327  | .8437  | .8446  | .8456  |
| 188.....                          | .8374                                          | .8384  | .8393  | .8403  | .8412  | .8422  | .8431  | .8441  | .8450  | .8460  |
| 189.....                          | .8377                                          | .8387  | .8396  | .8406  | .8415  | .8425  | .8434  | .8444  | .8453  | .8463  |
| 190.....                          | .8381                                          | .8391  | .8400  | .8410  | .8419  | .8429  | .8438  | .8448  | .8457  | .8467  |
| 191.....                          | .8384                                          | .8394  | .8403  | .8413  | .8422  | .8432  | .8441  | .8451  | .8460  | .8470  |
| 192.....                          | .8387                                          | .8397  | .8406  | .8416  | .8425  | .8435  | .8445  | .8454  | .8464  | .8473  |
| 193.....                          | .8390                                          | .8400  | .8409  | .8419  | .8428  | .8438  | .8448  | .8457  | .8467  | .8476  |
| 194.....                          | .8393                                          | .8403  | .8412  | .8422  | .8431  | .8441  | .8451  | .8460  | .8470  | .8479  |
| 195.....                          | .8397                                          | .8407  | .8416  | .8426  | .8435  | .8445  | .8455  | .8464  | .8474  | .8483  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.800                                          | 0.801  | 0.802  | 0.803  | 0.804  | 0.805  | 0.806  | 0.807  | 0.808  | 0.809  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.7749                                         | 0.7760 | 0.7770 | 0.7781 | 0.7791 | 0.7802 | 0.7813 | 0.7823 | 0.7834 | 0.7844 |
| 1.....                      | .7753                                          | .7764  | .7774  | .7785  | .7795  | .7806  | .7817  | .7827  | .7838  | .7848  |
| 2.....                      | .7758                                          | .7769  | .7779  | .7790  | .7800  | .7811  | .7822  | .7832  | .7843  | .7853  |
| 3.....                      | .7762                                          | .7773  | .7783  | .7794  | .7804  | .7815  | .7826  | .7836  | .7847  | .7857  |
| 4.....                      | .7767                                          | .7778  | .7788  | .7799  | .7809  | .7820  | .7831  | .7841  | .7852  | .7862  |
| 5.....                      | .7772                                          | .7783  | .7793  | .7804  | .7814  | .7825  | .7836  | .7846  | .7857  | .7867  |
| 6.....                      | .7776                                          | .7787  | .7797  | .7808  | .7818  | .7829  | .7840  | .7850  | .7861  | .7871  |
| 7.....                      | .7781                                          | .7792  | .7802  | .7813  | .7823  | .7834  | .7845  | .7855  | .7866  | .7876  |
| 8.....                      | .7785                                          | .7796  | .7806  | .7817  | .7827  | .7838  | .7849  | .7859  | .7870  | .7880  |
| 9.....                      | .7789                                          | .7800  | .7810  | .7821  | .7831  | .7842  | .7853  | .7863  | .7874  | .7884  |
| 10.....                     | .7793                                          | .7804  | .7814  | .7825  | .7835  | .7846  | .7857  | .7867  | .7878  | .7888  |
| 11.....                     | .7798                                          | .7808  | .7819  | .7829  | .7840  | .7850  | .7861  | .7871  | .7882  | .7892  |
| 12.....                     | .7802                                          | .7812  | .7823  | .7833  | .7844  | .7854  | .7865  | .7875  | .7886  | .7896  |
| 13.....                     | .7807                                          | .7817  | .7828  | .7838  | .7849  | .7859  | .7870  | .7880  | .7891  | .7901  |
| 14.....                     | .7812                                          | .7822  | .7833  | .7843  | .7854  | .7864  | .7874  | .7885  | .7895  | .7906  |
| 15.....                     | .7816                                          | .7826  | .7837  | .7847  | .7858  | .7868  | .7879  | .7889  | .7900  | .7910  |
| 16.....                     | .7820                                          | .7830  | .7841  | .7851  | .7862  | .7872  | .7883  | .7893  | .7904  | .7914  |
| 17.....                     | .7824                                          | .7834  | .7845  | .7855  | .7866  | .7876  | .7887  | .7897  | .7908  | .7918  |
| 18.....                     | .7828                                          | .7838  | .7849  | .7859  | .7870  | .7880  | .7891  | .7901  | .7912  | .7922  |
| 19.....                     | .7832                                          | .7842  | .7853  | .7863  | .7874  | .7884  | .7895  | .7905  | .7916  | .7926  |
| 20.....                     | .7836                                          | .7846  | .7857  | .7867  | .7878  | .7888  | .7899  | .7909  | .7920  | .7930  |
| 21.....                     | .7841                                          | .7851  | .7862  | .7872  | .7883  | .7893  | .7903  | .7914  | .7924  | .7935  |
| 22.....                     | .7845                                          | .7855  | .7866  | .7876  | .7887  | .7897  | .7907  | .7918  | .7928  | .7939  |
| 23.....                     | .7849                                          | .7859  | .7870  | .7880  | .7891  | .7901  | .7911  | .7922  | .7932  | .7943  |
| 24.....                     | .7853                                          | .7863  | .7874  | .7884  | .7895  | .7905  | .7915  | .7926  | .7936  | .7947  |
| 25.....                     | .7858                                          | .7868  | .7879  | .7889  | .7899  | .7910  | .7920  | .7930  | .7940  | .7951  |
| 26.....                     | .7862                                          | .7872  | .7883  | .7893  | .7903  | .7914  | .7924  | .7934  | .7944  | .7955  |
| 27.....                     | .7866                                          | .7876  | .7887  | .7897  | .7907  | .7918  | .7928  | .7938  | .7948  | .7959  |
| 28.....                     | .7870                                          | .7880  | .7891  | .7901  | .7911  | .7922  | .7932  | .7942  | .7952  | .7963  |
| 29.....                     | .7874                                          | .7884  | .7895  | .7905  | .7915  | .7926  | .7936  | .7946  | .7956  | .7967  |
| 30.....                     | .7879                                          | .7889  | .7899  | .7910  | .7920  | .7930  | .7940  | .7950  | .7961  | .7971  |
| 31.....                     | .7883                                          | .7893  | .7903  | .7914  | .7924  | .7934  | .7944  | .7954  | .7965  | .7975  |
| 32.....                     | .7887                                          | .7897  | .7907  | .7918  | .7928  | .7938  | .7948  | .7958  | .7969  | .7979  |
| 33.....                     | .7891                                          | .7901  | .7911  | .7922  | .7932  | .7942  | .7952  | .7962  | .7973  | .7983  |
| 34.....                     | .7895                                          | .7905  | .7915  | .7926  | .7936  | .7946  | .7956  | .7966  | .7977  | .7987  |
| 35.....                     | .7899                                          | .7909  | .7919  | .7930  | .7940  | .7950  | .7960  | .7970  | .7981  | .7991  |
| 36.....                     | .7903                                          | .7913  | .7923  | .7934  | .7944  | .7954  | .7964  | .7974  | .7985  | .7995  |
| 37.....                     | .7907                                          | .7917  | .7927  | .7938  | .7948  | .7958  | .7968  | .7978  | .7989  | .7999  |
| 38.....                     | .7911                                          | .7921  | .7931  | .7942  | .7952  | .7962  | .7972  | .7982  | .7993  | .8003  |
| 39.....                     | .7915                                          | .7925  | .7935  | .7946  | .7956  | .7966  | .7976  | .7986  | .7997  | .8007  |
| 40.....                     | .7919                                          | .7929  | .7939  | .7950  | .7960  | .7970  | .7980  | .7990  | .8001  | .8011  |
| 41.....                     | .7924                                          | .7934  | .7944  | .7954  | .7964  | .7975  | .7985  | .7995  | .8005  | .8015  |
| 42.....                     | .7928                                          | .7938  | .7948  | .7958  | .7968  | .7979  | .7989  | .7999  | .8009  | .8019  |
| 43.....                     | .7932                                          | .7942  | .7952  | .7962  | .7972  | .7983  | .7993  | .8003  | .8013  | .8023  |
| 44.....                     | .7936                                          | .7946  | .7956  | .7966  | .7976  | .7987  | .7997  | .8007  | .8017  | .8027  |
| 45.....                     | .7940                                          | .7950  | .7960  | .7970  | .7980  | .7991  | .8001  | .8011  | .8021  | .8031  |
| 46.....                     | .7944                                          | .7954  | .7964  | .7974  | .7984  | .7995  | .8005  | .8015  | .8025  | .8035  |
| 47.....                     | .7948                                          | .7958  | .7968  | .7978  | .7988  | .7999  | .8009  | .8019  | .8029  | .8039  |
| 48.....                     | .7952                                          | .7962  | .7972  | .7982  | .7992  | .8003  | .8013  | .8023  | .8033  | .8043  |
| 49.....                     | .7956                                          | .7966  | .7976  | .7986  | .7996  | .8007  | .8017  | .8027  | .8037  | .8047  |
| 50.....                     | .7960                                          | .7970  | .7980  | .7990  | .8000  | .8011  | .8021  | .8031  | .8041  | .8051  |
| 51.....                     | .7964                                          | .7974  | .7984  | .7994  | .8004  | .8015  | .8025  | .8035  | .8045  | .8055  |
| 52.....                     | .7968                                          | .7978  | .7988  | .7998  | .8008  | .8019  | .8029  | .8039  | .8049  | .8059  |
| 53.....                     | .7972                                          | .7982  | .7992  | .8002  | .8012  | .8022  | .8032  | .8042  | .8052  | .8062  |
| 54.....                     | .7976                                          | .7986  | .7996  | .8006  | .8016  | .8026  | .8036  | .8046  | .8056  | .8066  |
| 55.....                     | .7980                                          | .7990  | .8000  | .8010  | .8020  | .8030  | .8040  | .8050  | .8060  | .8070  |
| 56.....                     | .7984                                          | .7994  | .8004  | .8014  | .8024  | .8034  | .8044  | .8054  | .8064  | .8074  |
| 57.....                     | .7988                                          | .7998  | .8008  | .8018  | .8028  | .8038  | .8048  | .8058  | .8068  | .8078  |
| 58.....                     | .7992                                          | .8002  | .8012  | .8022  | .8032  | .8042  | .8052  | .8062  | .8072  | .8082  |
| 59.....                     | .7996                                          | .8006  | .8016  | .8026  | .8036  | .8046  | .8056  | .8066  | .8076  | .8086  |
| 60.....                     | .8000                                          | .8010  | .8020  | .8030  | .8040  | .8050  | .8060  | .8070  | .8080  | .8090  |
| 61.....                     | .8004                                          | .8014  | .8024  | .8034  | .8044  | .8054  | .8064  | .8074  | .8084  | .8094  |
| 62.....                     | .8008                                          | .8018  | .8028  | .8038  | .8048  | .8057  | .8067  | .8077  | .8087  | .8097  |
| 63.....                     | .8012                                          | .8022  | .8032  | .8042  | .8052  | .8061  | .8071  | .8081  | .8091  | .8101  |
| 64.....                     | .8016                                          | .8026  | .8036  | .8046  | .8056  | .8065  | .8075  | .8085  | .8095  | .8105  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.800                                          | 0.801  | 0.802  | 0.803  | 0.804  | 0.805  | 0.806  | 0.807  | 0.808  | 0.809  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                     | 0.8020                                         | 0.8030 | 0.8040 | 0.8050 | 0.8060 | 0.8069 | 0.8079 | 0.8089 | 0.8099 | 0.8109 |
| 66.....                     | .8024                                          | .8034  | .8044  | .8054  | .8064  | .8073  | .8083  | .8093  | .8103  | .8113  |
| 67.....                     | .8028                                          | .8038  | .8048  | .8058  | .8068  | .8077  | .8087  | .8097  | .8107  | .8117  |
| 68.....                     | .8031                                          | .8041  | .8051  | .8061  | .8071  | .8081  | .8091  | .8101  | .8111  | .8121  |
| 69.....                     | .8035                                          | .8045  | .8055  | .8065  | .8075  | .8085  | .8095  | .8105  | .8115  | .8125  |
| 70.....                     | .8039                                          | .8049  | .8059  | .8069  | .8079  | .8088  | .8098  | .8108  | .8118  | .8128  |
| 71.....                     | .8043                                          | .8053  | .8063  | .8073  | .8083  | .8092  | .8102  | .8112  | .8122  | .8132  |
| 72.....                     | .8047                                          | .8057  | .8067  | .8077  | .8087  | .8096  | .8106  | .8116  | .8126  | .8136  |
| 73.....                     | .8051                                          | .8061  | .8071  | .8081  | .8091  | .8100  | .8110  | .8120  | .8130  | .8140  |
| 74.....                     | .8055                                          | .8065  | .8075  | .8085  | .8095  | .8104  | .8114  | .8124  | .8134  | .8144  |
| 75.....                     | .8059                                          | .8069  | .8079  | .8089  | .8099  | .8108  | .8118  | .8128  | .8138  | .8148  |
| 76.....                     | .8063                                          | .8073  | .8083  | .8093  | .8103  | .8112  | .8122  | .8132  | .8142  | .8152  |
| 77.....                     | .8066                                          | .8076  | .8086  | .8096  | .8106  | .8115  | .8125  | .8135  | .8145  | .8155  |
| 78.....                     | .8070                                          | .8080  | .8090  | .8100  | .8110  | .8119  | .8129  | .8139  | .8149  | .8159  |
| 79.....                     | .8074                                          | .8084  | .8094  | .8104  | .8114  | .8123  | .8133  | .8143  | .8153  | .8163  |
| 80.....                     | .8078                                          | .8088  | .8098  | .8108  | .8118  | .8127  | .8137  | .8147  | .8157  | .8167  |
| 81.....                     | .8082                                          | .8092  | .8102  | .8112  | .8122  | .8131  | .8141  | .8151  | .8161  | .8171  |
| 82.....                     | .8086                                          | .8096  | .8106  | .8115  | .8125  | .8135  | .8145  | .8155  | .8164  | .8174  |
| 83.....                     | .8090                                          | .8100  | .8110  | .8119  | .8129  | .8139  | .8149  | .8159  | .8168  | .8178  |
| 84.....                     | .8094                                          | .8104  | .8114  | .8123  | .8133  | .8143  | .8153  | .8163  | .8172  | .8182  |
| 85.....                     | .8098                                          | .8108  | .8118  | .8127  | .8137  | .8147  | .8157  | .8167  | .8176  | .8186  |
| 86.....                     | .8101                                          | .8111  | .8121  | .8131  | .8141  | .8150  | .8160  | .8170  | .8180  | .8190  |
| 87.....                     | .8105                                          | .8115  | .8125  | .8134  | .8144  | .8154  | .8164  | .8174  | .8183  | .8193  |
| 88.....                     | .8109                                          | .8119  | .8129  | .8138  | .8148  | .8158  | .8168  | .8178  | .8187  | .8197  |
| 89.....                     | .8113                                          | .8123  | .8133  | .8142  | .8152  | .8162  | .8172  | .8182  | .8191  | .8201  |
| 90.....                     | .8116                                          | .8126  | .8136  | .8145  | .8155  | .8165  | .8175  | .8185  | .8194  | .8204  |
| 91.....                     | .8120                                          | .8130  | .8140  | .8149  | .8159  | .8169  | .8179  | .8189  | .8198  | .8208  |
| 92.....                     | .8123                                          | .8133  | .8143  | .8152  | .8162  | .8172  | .8182  | .8192  | .8201  | .8211  |
| 93.....                     | .8127                                          | .8137  | .8147  | .8156  | .8166  | .8176  | .8186  | .8196  | .8205  | .8215  |
| 94.....                     | .8131                                          | .8141  | .8151  | .8160  | .8170  | .8180  | .8190  | .8200  | .8209  | .8219  |
| 95.....                     | .8134                                          | .8144  | .8154  | .8163  | .8173  | .8183  | .8193  | .8203  | .8212  | .8222  |
| 96.....                     | .8137                                          | .8147  | .8157  | .8167  | .8177  | .8186  | .8196  | .8206  | .8216  | .8226  |
| 97.....                     | .8141                                          | .8151  | .8161  | .8170  | .8180  | .8190  | .8200  | .8210  | .8219  | .8229  |
| 98.....                     | .8145                                          | .8155  | .8165  | .8174  | .8184  | .8194  | .8204  | .8214  | .8223  | .8233  |
| 99.....                     | .8149                                          | .8159  | .8169  | .8178  | .8188  | .8198  | .8208  | .8218  | .8227  | .8237  |
| 100.....                    | .8153                                          | .8163  | .8173  | .8182  | .8192  | .8202  | .8212  | .8222  | .8231  | .8241  |
| 101.....                    | .8157                                          | .8167  | .8177  | .8186  | .8196  | .8206  | .8216  | .8226  | .8235  | .8245  |
| 102.....                    | .8161                                          | .8171  | .8180  | .8190  | .8200  | .8209  | .8219  | .8229  | .8239  | .8248  |
| 103.....                    | .8165                                          | .8175  | .8184  | .8194  | .8204  | .8213  | .8223  | .8233  | .8243  | .8252  |
| 104.....                    | .8168                                          | .8178  | .8188  | .8197  | .8207  | .8217  | .8227  | .8237  | .8246  | .8256  |
| 105.....                    | .8172                                          | .8182  | .8191  | .8201  | .8211  | .8220  | .8230  | .8240  | .8250  | .8259  |
| 106.....                    | .8176                                          | .8186  | .8195  | .8205  | .8215  | .8224  | .8234  | .8244  | .8254  | .8263  |
| 107.....                    | .8180                                          | .8190  | .8199  | .8209  | .8219  | .8228  | .8238  | .8248  | .8258  | .8267  |
| 108.....                    | .8184                                          | .8194  | .8203  | .8213  | .8223  | .8232  | .8242  | .8252  | .8262  | .8271  |
| 109.....                    | .8187                                          | .8197  | .8206  | .8216  | .8226  | .8235  | .8245  | .8255  | .8265  | .8274  |
| 110.....                    | .8191                                          | .8201  | .8210  | .8220  | .8230  | .8239  | .8249  | .8259  | .8269  | .8278  |
| 111.....                    | .8194                                          | .8204  | .8213  | .8223  | .8233  | .8242  | .8252  | .8262  | .8272  | .8281  |
| 112.....                    | .8198                                          | .8208  | .8217  | .8227  | .8237  | .8246  | .8256  | .8266  | .8276  | .8285  |
| 113.....                    | .8202                                          | .8212  | .8221  | .8231  | .8241  | .8250  | .8260  | .8270  | .8280  | .8289  |
| 114.....                    | .8205                                          | .8215  | .8224  | .8234  | .8244  | .8253  | .8263  | .8273  | .8283  | .8292  |
| 115.....                    | .8209                                          | .8219  | .8228  | .8238  | .8248  | .8257  | .8267  | .8277  | .8287  | .8296  |
| 116.....                    | .8213                                          | .8223  | .8232  | .8242  | .8252  | .8261  | .8271  | .8281  | .8291  | .8300  |
| 117.....                    | .8217                                          | .8227  | .8236  | .8246  | .8256  | .8265  | .8275  | .8285  | .8295  | .8304  |
| 118.....                    | .8220                                          | .8230  | .8239  | .8249  | .8259  | .8268  | .8278  | .8288  | .8298  | .8307  |
| 119.....                    | .8224                                          | .8234  | .8243  | .8253  | .8262  | .8272  | .8282  | .8291  | .8301  | .8310  |
| 120.....                    | .8227                                          | .8237  | .8246  | .8256  | .8266  | .8275  | .8285  | .8295  | .8305  | .8314  |
| 121.....                    | .8231                                          | .8241  | .8250  | .8260  | .8270  | .8279  | .8289  | .8299  | .8309  | .8318  |
| 122.....                    | .8235                                          | .8245  | .8254  | .8264  | .8274  | .8283  | .8293  | .8303  | .8313  | .8322  |
| 123.....                    | .8238                                          | .8248  | .8257  | .8267  | .8277  | .8286  | .8296  | .8306  | .8316  | .8325  |
| 124.....                    | .8242                                          | .8252  | .8261  | .8271  | .8281  | .8290  | .8300  | .8310  | .8320  | .8329  |
| 125.....                    | .8245                                          | .8255  | .8264  | .8274  | .8284  | .8293  | .8303  | .8313  | .8323  | .8332  |
| 126.....                    | .8248                                          | .8258  | .8267  | .8277  | .8287  | .8296  | .8306  | .8316  | .8326  | .8335  |
| 127.....                    | .8252                                          | .8262  | .8271  | .8281  | .8291  | .8300  | .8310  | .8320  | .8330  | .8339  |
| 128.....                    | .8255                                          | .8265  | .8274  | .8284  | .8294  | .8303  | .8313  | .8323  | .8333  | .8342  |
| 129.....                    | .8259                                          | .8269  | .8278  | .8288  | .8298  | .8307  | .8317  | .8327  | .8337  | .8346  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in ° F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 0.800                                          | 0.801  | 0.802  | 0.803  | 0.804  | 0.805  | 0.806  | 0.807  | 0.808  | 0.809  |
|                              | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 130.....                     | 0.8263                                         | 0.8273 | 0.8282 | 0.8292 | 0.8302 | 0.8311 | 0.8321 | 0.8331 | 0.8341 | 0.8350 |
| 131.....                     | .8266                                          | .8276  | .8285  | .8295  | .8305  | .8314  | .8324  | .8334  | .8344  | .8353  |
| 132.....                     | .8270                                          | .8280  | .8289  | .8299  | .8309  | .8318  | .8328  | .8338  | .8348  | .8357  |
| 133.....                     | .8274                                          | .8284  | .8293  | .8303  | .8312  | .8322  | .8332  | .8341  | .8351  | .8360  |
| 134.....                     | .8278                                          | .8288  | .8297  | .8307  | .8316  | .8326  | .8336  | .8345  | .8355  | .8364  |
| 135.....                     | .8281                                          | .8291  | .8300  | .8310  | .8320  | .8329  | .8339  | .8349  | .8359  | .8368  |
| 136.....                     | .8285                                          | .8295  | .8304  | .8314  | .8323  | .8333  | .8343  | .8352  | .8362  | .8371  |
| 137.....                     | .8288                                          | .8298  | .8307  | .8317  | .8326  | .8336  | .8346  | .8355  | .8365  | .8374  |
| 138.....                     | .8291                                          | .8301  | .8310  | .8320  | .8330  | .8339  | .8349  | .8359  | .8369  | .8378  |
| 139.....                     | .8295                                          | .8305  | .8314  | .8324  | .8334  | .8343  | .8353  | .8363  | .8373  | .8382  |
| 140.....                     | .8299                                          | .8309  | .8318  | .8328  | .8338  | .8347  | .8357  | .8367  | .8377  | .8386  |
| 141.....                     | .8303                                          | .8313  | .8322  | .8332  | .8341  | .8351  | .8361  | .8370  | .8380  | .8389  |
| 142.....                     | .8307                                          | .8317  | .8326  | .8336  | .8345  | .8355  | .8365  | .8374  | .8384  | .8393  |
| 143.....                     | .8310                                          | .8320  | .8329  | .8339  | .8348  | .8358  | .8368  | .8377  | .8387  | .8396  |
| 144.....                     | .8314                                          | .8324  | .8333  | .8343  | .8352  | .8362  | .8372  | .8381  | .8391  | .8400  |
| 145.....                     | .8318                                          | .8328  | .8337  | .8347  | .8356  | .8366  | .8376  | .8385  | .8395  | .8404  |
| 146.....                     | .8321                                          | .8331  | .8340  | .8350  | .8359  | .8369  | .8379  | .8388  | .8398  | .8407  |
| 147.....                     | .8325                                          | .8335  | .8344  | .8354  | .8363  | .8373  | .8383  | .8392  | .8402  | .8411  |
| 148.....                     | .8328                                          | .8338  | .8347  | .8357  | .8366  | .8376  | .8386  | .8395  | .8405  | .8414  |
| 149.....                     | .8331                                          | .8341  | .8350  | .8360  | .8369  | .8379  | .8389  | .8398  | .8408  | .8417  |
| 150.....                     | .8335                                          | .8345  | .8354  | .8364  | .8373  | .8383  | .8393  | .8402  | .8412  | .8421  |
| 151.....                     | .8339                                          | .8349  | .8358  | .8368  | .8377  | .8387  | .8397  | .8406  | .8416  | .8425  |
| 152.....                     | .8342                                          | .8352  | .8361  | .8371  | .8380  | .8390  | .8400  | .8409  | .8419  | .8428  |
| 153.....                     | .8346                                          | .8356  | .8365  | .8375  | .8384  | .8394  | .8404  | .8413  | .8423  | .8432  |
| 154.....                     | .8350                                          | .8360  | .8369  | .8379  | .8388  | .8398  | .8408  | .8417  | .8427  | .8436  |
| 155.....                     | .8353                                          | .8363  | .8372  | .8382  | .8391  | .8401  | .8411  | .8420  | .8430  | .8439  |
| 156.....                     | .8357                                          | .8367  | .8376  | .8386  | .8395  | .8405  | .8415  | .8424  | .8434  | .8443  |
| 157.....                     | .8360                                          | .8370  | .8379  | .8389  | .8398  | .8408  | .8418  | .8427  | .8437  | .8446  |
| 158.....                     | .8363                                          | .8373  | .8382  | .8392  | .8401  | .8411  | .8421  | .8430  | .8440  | .8449  |
| 159.....                     | .8367                                          | .8377  | .8386  | .8396  | .8405  | .8415  | .8425  | .8434  | .8444  | .8453  |
| 160.....                     | .8370                                          | .8380  | .8389  | .8399  | .8408  | .8418  | .8428  | .8437  | .8447  | .8456  |
| 161.....                     | .8373                                          | .8383  | .8392  | .8402  | .8411  | .8421  | .8431  | .8440  | .8450  | .8459  |
| 162.....                     | .8377                                          | .8387  | .8396  | .8406  | .8415  | .8425  | .8435  | .8444  | .8454  | .8463  |
| 163.....                     | .8380                                          | .8390  | .8399  | .8409  | .8418  | .8428  | .8438  | .8447  | .8457  | .8466  |
| 164.....                     | .8384                                          | .8394  | .8403  | .8413  | .8422  | .8432  | .8442  | .8451  | .8461  | .8470  |
| 165.....                     | .8388                                          | .8398  | .8407  | .8417  | .8426  | .8436  | .8445  | .8455  | .8464  | .8474  |
| 166.....                     | .8391                                          | .8401  | .8410  | .8420  | .8429  | .8439  | .8449  | .8458  | .8468  | .8477  |
| 167.....                     | .8395                                          | .8405  | .8414  | .8424  | .8433  | .8443  | .8453  | .8462  | .8472  | .8481  |
| 168.....                     | .8398                                          | .8408  | .8417  | .8327  | .8436  | .8446  | .8456  | .8465  | .8475  | .8484  |
| 169.....                     | .8402                                          | .8412  | .8421  | .8431  | .8440  | .8450  | .8459  | .8469  | .8478  | .8488  |
| 170.....                     | .8406                                          | .8416  | .8425  | .8435  | .8444  | .8454  | .8463  | .8473  | .8482  | .8492  |
| 171.....                     | .8409                                          | .8419  | .8428  | .8438  | .8447  | .8457  | .8466  | .8476  | .8485  | .8495  |
| 172.....                     | .8413                                          | .8423  | .8432  | .8442  | .8451  | .8461  | .8470  | .8480  | .8489  | .8499  |
| 173.....                     | .8416                                          | .8426  | .8435  | .8445  | .8454  | .8464  | .8473  | .8483  | .8492  | .8502  |
| 174.....                     | .8420                                          | .8430  | .8439  | .8449  | .8458  | .8468  | .8477  | .8487  | .8496  | .8506  |
| 175.....                     | .8423                                          | .8433  | .8442  | .8452  | .8461  | .8471  | .8480  | .8490  | .8499  | .8509  |
| 176.....                     | .8426                                          | .8436  | .8445  | .8455  | .8464  | .8474  | .8483  | .8493  | .8502  | .8512  |
| 177.....                     | .8430                                          | .8440  | .8449  | .8459  | .8468  | .8478  | .8487  | .8497  | .8506  | .8516  |
| 178.....                     | .8434                                          | .8444  | .8453  | .8463  | .8472  | .8482  | .8491  | .8501  | .8510  | .8520  |
| 179.....                     | .8437                                          | .8447  | .8456  | .8466  | .8475  | .8485  | .8494  | .8504  | .8513  | .8523  |
| 180.....                     | .8441                                          | .8451  | .8460  | .8470  | .8479  | .8489  | .8498  | .8508  | .8517  | .8527  |
| 181.....                     | .8444                                          | .8454  | .8463  | .8473  | .8482  | .8492  | .8501  | .8511  | .8520  | .8530  |
| 182.....                     | .8448                                          | .8458  | .8467  | .8477  | .8486  | .8496  | .8505  | .8515  | .8524  | .8534  |
| 183.....                     | .8451                                          | .8461  | .8470  | .8480  | .8489  | .8499  | .8508  | .8518  | .8527  | .8537  |
| 184.....                     | .8455                                          | .8465  | .8474  | .8484  | .8493  | .8503  | .8512  | .8522  | .8531  | .8541  |
| 185.....                     | .8458                                          | .8468  | .8477  | .8487  | .8496  | .8506  | .8515  | .8525  | .8534  | .8544  |
| 186.....                     | .8462                                          | .8472  | .8481  | .8491  | .8500  | .8510  | .8519  | .8529  | .8538  | .8548  |
| 187.....                     | .8465                                          | .8475  | .8484  | .8494  | .8503  | .8513  | .8522  | .8532  | .8541  | .8551  |
| 188.....                     | .8469                                          | .8479  | .8488  | .8498  | .8507  | .8517  | .8526  | .8536  | .8545  | .8555  |
| 189.....                     | .8472                                          | .8482  | .8491  | .8501  | .8510  | .8520  | .8529  | .8539  | .8548  | .8558  |
| 190.....                     | .8476                                          | .8486  | .8495  | .8505  | .8514  | .8524  | .8533  | .8543  | .8552  | .8562  |
| 191.....                     | .8479                                          | .8489  | .8498  | .8508  | .8517  | .8527  | .8536  | .8546  | .8555  | .8565  |
| 192.....                     | .8482                                          | .8492  | .8501  | .8511  | .8520  | .8530  | .8539  | .8549  | .8558  | .8568  |
| 193.....                     | .8485                                          | .8495  | .8504  | .8514  | .8523  | .8533  | .8542  | .8552  | .8561  | .8571  |
| 194.....                     | .8489                                          | .8499  | .8508  | .8518  | .8527  | .8537  | .8546  | .8556  | .8565  | .8575  |
| 195.....                     | .8493                                          | .8503  | .8512  | .8522  | .8531  | .8541  | .8550  | .8560  | .8569  | .8579  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.810                                          | 0.811  | 0.812  | 0.813  | 0.814  | 0.815  | 0.816  | 0.817  | 0.818  | 0.819  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.7855                                         | 0.7865 | 0.7876 | 0.7886 | 0.7897 | 0.7907 | 0.7918 | 0.7928 | 0.7939 | 0.7949 |
| 1.....                      | .7859                                          | .7869  | .7880  | .7890  | .7901  | .7911  | .7922  | .7932  | .7943  | .7953  |
| 2.....                      | .7864                                          | .7874  | .7885  | .7895  | .7906  | .7916  | .7927  | .7937  | .7948  | .7958  |
| 3.....                      | .7868                                          | .7878  | .7889  | .7899  | .7910  | .7920  | .7931  | .7941  | .7952  | .7962  |
| 4.....                      | .7873                                          | .7883  | .7894  | .7904  | .7915  | .7925  | .7936  | .7946  | .7957  | .7967  |
| 5.....                      | .7878                                          | .7888  | .7899  | .7909  | .7920  | .7930  | .7941  | .7951  | .7962  | .7972  |
| 6.....                      | .7882                                          | .7892  | .7903  | .7913  | .7924  | .7934  | .7945  | .7955  | .7966  | .7976  |
| 7.....                      | .7887                                          | .7897  | .7908  | .7918  | .7929  | .7939  | .7950  | .7960  | .7971  | .7981  |
| 8.....                      | .7891                                          | .7901  | .7912  | .7922  | .7933  | .7943  | .7954  | .7964  | .7975  | .7985  |
| 9.....                      | .7895                                          | .7905  | .7916  | .7926  | .7937  | .7947  | .7958  | .7968  | .7979  | .7989  |
| 10.....                     | .7899                                          | .7909  | .7920  | .7930  | .7941  | .7951  | .7962  | .7972  | .7983  | .7993  |
| 11.....                     | .7903                                          | .7913  | .7924  | .7934  | .7945  | .7955  | .7966  | .7976  | .7987  | .7997  |
| 12.....                     | .7907                                          | .7917  | .7928  | .7938  | .7949  | .7959  | .7970  | .7980  | .7991  | .8001  |
| 13.....                     | .7912                                          | .7922  | .7933  | .7943  | .7954  | .7964  | .7974  | .7985  | .7995  | .8006  |
| 14.....                     | .7916                                          | .7926  | .7937  | .7947  | .7958  | .7968  | .7978  | .7989  | .7999  | .8010  |
| 15.....                     | .7921                                          | .7931  | .7942  | .7952  | .7962  | .7973  | .7983  | .7993  | .8003  | .8014  |
| 16.....                     | .7925                                          | .7935  | .7946  | .7956  | .7966  | .7977  | .7987  | .7997  | .8007  | .8018  |
| 17.....                     | .7929                                          | .7939  | .7950  | .7960  | .7970  | .7981  | .7991  | .8001  | .8011  | .8022  |
| 18.....                     | .7933                                          | .7943  | .7954  | .7964  | .7974  | .7985  | .7995  | .8005  | .8015  | .8026  |
| 19.....                     | .7937                                          | .7947  | .7958  | .7968  | .7978  | .7989  | .7999  | .8009  | .8019  | .8030  |
| 20.....                     | .7941                                          | .7951  | .7962  | .7972  | .7982  | .7993  | .8003  | .8013  | .8023  | .8034  |
| 21.....                     | .7945                                          | .7955  | .7966  | .7976  | .7986  | .7997  | .8007  | .8017  | .8027  | .8038  |
| 22.....                     | .7949                                          | .7959  | .7970  | .7980  | .7990  | .8001  | .8011  | .8021  | .8031  | .8042  |
| 23.....                     | .7953                                          | .7963  | .7974  | .7984  | .7994  | .8005  | .8015  | .8025  | .8035  | .8046  |
| 24.....                     | .7957                                          | .7967  | .7978  | .7988  | .7998  | .8009  | .8019  | .8029  | .8039  | .8050  |
| 25.....                     | .7961                                          | .7971  | .7982  | .7992  | .8002  | .8013  | .8023  | .8033  | .8043  | .8054  |
| 26.....                     | .7965                                          | .7975  | .7986  | .7996  | .8006  | .8017  | .8027  | .8037  | .8047  | .8058  |
| 27.....                     | .7969                                          | .7979  | .7990  | .8000  | .8010  | .8021  | .8031  | .8041  | .8051  | .8062  |
| 28.....                     | .7973                                          | .7983  | .7994  | .8004  | .8014  | .8025  | .8035  | .8045  | .8055  | .8066  |
| 29.....                     | .7977                                          | .7987  | .7998  | .8008  | .8018  | .8029  | .8039  | .8049  | .8059  | .8070  |
| 30.....                     | .7981                                          | .7991  | .8002  | .8012  | .8022  | .8033  | .8043  | .8053  | .8063  | .8074  |
| 31.....                     | .7985                                          | .7995  | .8005  | .8016  | .8026  | .8036  | .8046  | .8056  | .8067  | .8077  |
| 32.....                     | .7989                                          | .7999  | .8009  | .8020  | .8030  | .8040  | .8050  | .8060  | .8071  | .8081  |
| 33.....                     | .7993                                          | .8003  | .8013  | .8024  | .8034  | .8044  | .8054  | .8064  | .8075  | .8085  |
| 34.....                     | .7997                                          | .8007  | .8017  | .8028  | .8038  | .8048  | .8058  | .8068  | .8079  | .8089  |
| 35.....                     | .8001                                          | .8011  | .8021  | .8032  | .8042  | .8052  | .8062  | .8072  | .8083  | .8093  |
| 36.....                     | .8005                                          | .8015  | .8025  | .8036  | .8046  | .8056  | .8066  | .8076  | .8087  | .8097  |
| 37.....                     | .8009                                          | .8019  | .8029  | .8040  | .8050  | .8060  | .8070  | .8080  | .8091  | .8101  |
| 38.....                     | .8013                                          | .8023  | .8033  | .8044  | .8054  | .8064  | .8074  | .8084  | .8095  | .8105  |
| 39.....                     | .8017                                          | .8027  | .8037  | .8048  | .8058  | .8068  | .8078  | .8088  | .8099  | .8109  |
| 40.....                     | .8021                                          | .8031  | .8041  | .8052  | .8062  | .8072  | .8082  | .8092  | .8103  | .8113  |
| 41.....                     | .8025                                          | .8035  | .8045  | .8056  | .8066  | .8076  | .8086  | .8096  | .8107  | .8117  |
| 42.....                     | .8029                                          | .8039  | .8049  | .8060  | .8070  | .8080  | .8090  | .8100  | .8111  | .8121  |
| 43.....                     | .8033                                          | .8043  | .8053  | .8064  | .8074  | .8084  | .8094  | .8104  | .8115  | .8125  |
| 44.....                     | .8037                                          | .8047  | .8057  | .8068  | .8078  | .8088  | .8098  | .8108  | .8119  | .8129  |
| 45.....                     | .8041                                          | .8051  | .8061  | .8072  | .8082  | .8092  | .8102  | .8112  | .8123  | .8133  |
| 46.....                     | .8045                                          | .8055  | .8065  | .8076  | .8086  | .8096  | .8106  | .8116  | .8127  | .8137  |
| 47.....                     | .8049                                          | .8059  | .8069  | .8080  | .8090  | .8100  | .8110  | .8120  | .8131  | .8141  |
| 48.....                     | .8053                                          | .8063  | .8073  | .8084  | .8094  | .8104  | .8114  | .8124  | .8135  | .8145  |
| 49.....                     | .8057                                          | .8067  | .8077  | .8088  | .8098  | .8108  | .8118  | .8128  | .8139  | .8149  |
| 50.....                     | .8061                                          | .8071  | .8081  | .8091  | .8101  | .8112  | .8122  | .8132  | .8142  | .8152  |
| 51.....                     | .8065                                          | .8075  | .8085  | .8095  | .8105  | .8116  | .8126  | .8136  | .8146  | .8156  |
| 52.....                     | .8069                                          | .8079  | .8089  | .8099  | .8109  | .8120  | .8130  | .8140  | .8150  | .8160  |
| 53.....                     | .8072                                          | .8082  | .8092  | .8103  | .8113  | .8123  | .8133  | .8143  | .8154  | .8164  |
| 54.....                     | .8076                                          | .8086  | .8096  | .8106  | .8116  | .8127  | .8137  | .8147  | .8157  | .8167  |
| 55.....                     | .8080                                          | .8090  | .8100  | .8110  | .8120  | .8131  | .8141  | .8151  | .8161  | .8171  |
| 56.....                     | .8084                                          | .8094  | .8104  | .8114  | .8124  | .8135  | .8145  | .8155  | .8165  | .8175  |
| 57.....                     | .8088                                          | .8098  | .8108  | .8118  | .8128  | .8138  | .8148  | .8158  | .8168  | .8178  |
| 58.....                     | .8092                                          | .8102  | .8112  | .8122  | .8132  | .8142  | .8152  | .8162  | .8172  | .8182  |
| 59.....                     | .8096                                          | .8106  | .8116  | .8126  | .8136  | .8146  | .8156  | .8166  | .8176  | .8186  |
| 60.....                     | .8100                                          | .8110  | .8120  | .8130  | .8140  | .8150  | .8160  | .8170  | .8180  | .8190  |
| 61.....                     | .8104                                          | .8114  | .8124  | .8134  | .8144  | .8154  | .8164  | .8174  | .8184  | .8194  |
| 62.....                     | .8107                                          | .8117  | .8127  | .8137  | .8147  | .8157  | .8167  | .8177  | .8187  | .8197  |
| 63.....                     | .8111                                          | .8121  | .8131  | .8141  | .8151  | .8160  | .8170  | .8180  | .8190  | .8200  |
| 64.....                     | .8115                                          | .8125  | .8135  | .8145  | .8155  | .8164  | .8174  | .8184  | .8194  | .8204  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.810                                          | 0.811  | 0.812  | 0.813  | 0.814  | 0.815  | 0.816  | 0.817  | 0.818  | 0.819  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                     | 0.8119                                         | 0.8129 | 0.8139 | 0.8149 | 0.8159 | 0.8168 | 0.8178 | 0.8188 | 0.8198 | 0.8208 |
| 66.....                     | .8123                                          | .8133  | .8143  | .8153  | .8163  | .8172  | .8182  | .8192  | .8202  | .8212  |
| 67.....                     | .8127                                          | .8137  | .8147  | .8157  | .8167  | .8176  | .8186  | .8196  | .8206  | .8216  |
| 68.....                     | .8131                                          | .8141  | .8151  | .8161  | .8171  | .8180  | .8190  | .8200  | .8210  | .8220  |
| 69.....                     | .8135                                          | .8145  | .8155  | .8165  | .8175  | .8184  | .8194  | .8204  | .8214  | .8224  |
| 70.....                     | .8138                                          | .8148  | .8158  | .8168  | .8178  | .8187  | .8197  | .8207  | .8217  | .8227  |
| 71.....                     | .8142                                          | .8152  | .8162  | .8172  | .8182  | .8191  | .8201  | .8211  | .8221  | .8231  |
| 72.....                     | .8146                                          | .8156  | .8166  | .8176  | .8186  | .8195  | .8205  | .8215  | .8225  | .8235  |
| 73.....                     | .8150                                          | .8160  | .8170  | .8180  | .8190  | .8199  | .8209  | .8219  | .8229  | .8239  |
| 74.....                     | .8154                                          | .8164  | .8174  | .8184  | .8194  | .8203  | .8213  | .8223  | .8233  | .8243  |
| 75.....                     | .8158                                          | .8168  | .8178  | .8188  | .8198  | .8207  | .8217  | .8227  | .8237  | .8247  |
| 76.....                     | .8162                                          | .8172  | .8182  | .8192  | .8202  | .8211  | .8221  | .8231  | .8241  | .8251  |
| 77.....                     | .8165                                          | .8175  | .8185  | .8195  | .8205  | .8214  | .8224  | .8234  | .8244  | .8254  |
| 78.....                     | .8169                                          | .8179  | .8189  | .8199  | .8209  | .8218  | .8228  | .8238  | .8248  | .8258  |
| 79.....                     | .8173                                          | .8183  | .8193  | .8203  | .8213  | .8222  | .8232  | .8242  | .8252  | .8262  |
| 80.....                     | .8177                                          | .8187  | .8197  | .8207  | .8217  | .8226  | .8236  | .8246  | .8256  | .8266  |
| 81.....                     | .8181                                          | .8191  | .8201  | .8211  | .8221  | .8230  | .8240  | .8250  | .8260  | .8270  |
| 82.....                     | .8184                                          | .8194  | .8204  | .8214  | .8224  | .8233  | .8243  | .8253  | .8263  | .8273  |
| 83.....                     | .8188                                          | .8198  | .8208  | .8218  | .8228  | .8237  | .8247  | .8257  | .8267  | .8277  |
| 84.....                     | .8192                                          | .8202  | .8212  | .8222  | .8232  | .8241  | .8251  | .8261  | .8271  | .8281  |
| 85.....                     | .8196                                          | .8206  | .8216  | .8226  | .8236  | .8245  | .8255  | .8265  | .8275  | .8285  |
| 86.....                     | .8200                                          | .8210  | .8220  | .8230  | .8240  | .8249  | .8259  | .8269  | .8279  | .8289  |
| 87.....                     | .8203                                          | .8213  | .8223  | .8233  | .8243  | .8252  | .8262  | .8272  | .8282  | .8292  |
| 88.....                     | .8207                                          | .8217  | .8227  | .8236  | .8246  | .8256  | .8266  | .8276  | .8285  | .8295  |
| 89.....                     | .8211                                          | .8221  | .8231  | .8240  | .8250  | .8260  | .8270  | .8280  | .8289  | .8299  |
| 90.....                     | .8214                                          | .8224  | .8234  | .8243  | .8253  | .8263  | .8273  | .8283  | .8292  | .8302  |
| 91.....                     | .8218                                          | .8228  | .8238  | .8247  | .8257  | .8267  | .8277  | .8287  | .8296  | .8306  |
| 92.....                     | .8221                                          | .8231  | .8241  | .8251  | .8261  | .8270  | .8280  | .8290  | .8300  | .8310  |
| 93.....                     | .8225                                          | .8235  | .8245  | .8254  | .8264  | .8274  | .8284  | .8294  | .8303  | .8313  |
| 94.....                     | .8229                                          | .8239  | .8249  | .8258  | .8268  | .8278  | .8288  | .8298  | .8307  | .8317  |
| 95.....                     | .8232                                          | .8242  | .8252  | .8262  | .8272  | .8281  | .8291  | .8301  | .8311  | .8321  |
| 96.....                     | .8236                                          | .8246  | .8256  | .8265  | .8275  | .8285  | .8295  | .8305  | .8314  | .8324  |
| 97.....                     | .8239                                          | .8249  | .8259  | .8268  | .8278  | .8288  | .8298  | .8308  | .8317  | .8327  |
| 98.....                     | .8243                                          | .8253  | .8263  | .8272  | .8282  | .8292  | .8302  | .8312  | .8321  | .8331  |
| 99.....                     | .8247                                          | .8257  | .8266  | .8276  | .8286  | .8295  | .8305  | .8315  | .8325  | .8334  |
| 100.....                    | .8251                                          | .8261  | .8270  | .8280  | .8290  | .8299  | .8309  | .8319  | .8329  | .8338  |
| 101.....                    | .8255                                          | .8265  | .8274  | .8284  | .8294  | .8303  | .8313  | .8323  | .8333  | .8342  |
| 102.....                    | .8258                                          | .8268  | .8278  | .8287  | .8297  | .8307  | .8317  | .8327  | .8336  | .8346  |
| 103.....                    | .8262                                          | .8272  | .8282  | .8291  | .8301  | .8311  | .8321  | .8331  | .8340  | .8350  |
| 104.....                    | .8266                                          | .8276  | .8286  | .8295  | .8305  | .8315  | .8325  | .8335  | .8344  | .8354  |
| 105.....                    | .8269                                          | .8279  | .8289  | .8298  | .8308  | .8318  | .8328  | .8338  | .8347  | .8357  |
| 106.....                    | .8273                                          | .8283  | .8292  | .8302  | .8312  | .8321  | .8331  | .8341  | .8351  | .8360  |
| 107.....                    | .8277                                          | .8287  | .8296  | .8306  | .8316  | .8325  | .8335  | .8345  | .8355  | .8364  |
| 108.....                    | .8281                                          | .8291  | .8300  | .8310  | .8320  | .8329  | .8339  | .8349  | .8359  | .8368  |
| 109.....                    | .8284                                          | .8294  | .8304  | .8313  | .8323  | .8333  | .8343  | .8353  | .8362  | .8372  |
| 110.....                    | .8288                                          | .8298  | .8307  | .8317  | .8327  | .8336  | .8346  | .8356  | .8366  | .8375  |
| 111.....                    | .8291                                          | .8301  | .8311  | .8320  | .8330  | .8340  | .8350  | .8360  | .8369  | .8379  |
| 112.....                    | .8295                                          | .8305  | .8315  | .8324  | .8334  | .8344  | .8354  | .8364  | .8373  | .8383  |
| 113.....                    | .8299                                          | .8309  | .8319  | .8328  | .8338  | .8348  | .8358  | .8368  | .8377  | .8387  |
| 114.....                    | .8302                                          | .8312  | .8322  | .8331  | .8341  | .8351  | .8361  | .8371  | .8380  | .8390  |
| 115.....                    | .8306                                          | .8316  | .8326  | .8335  | .8345  | .8355  | .8365  | .8375  | .8384  | .8394  |
| 116.....                    | .8310                                          | .8320  | .8329  | .8339  | .8349  | .8358  | .8368  | .8378  | .8388  | .8397  |
| 117.....                    | .8314                                          | .8324  | .8333  | .8343  | .8353  | .8362  | .8372  | .8382  | .8392  | .8401  |
| 118.....                    | .8317                                          | .8327  | .8337  | .8346  | .8356  | .8366  | .8376  | .8386  | .8395  | .8405  |
| 119.....                    | .8320                                          | .8330  | .8340  | .8349  | .8359  | .8369  | .8379  | .8389  | .8398  | .8408  |
| 120.....                    | .8324                                          | .8334  | .8343  | .8353  | .8363  | .8372  | .8382  | .8392  | .8402  | .8411  |
| 121.....                    | .8328                                          | .8338  | .8347  | .8357  | .8367  | .8376  | .8386  | .8396  | .8406  | .8415  |
| 122.....                    | .8332                                          | .8342  | .8351  | .8361  | .8371  | .8380  | .8390  | .8400  | .8410  | .8419  |
| 123.....                    | .8335                                          | .8345  | .8354  | .8364  | .8374  | .8383  | .8393  | .8403  | .8413  | .8422  |
| 124.....                    | .8339                                          | .8349  | .8358  | .8368  | .8377  | .8387  | .8397  | .8406  | .8416  | .8425  |
| 125.....                    | .8342                                          | .8352  | .8361  | .8371  | .8381  | .8390  | .8400  | .8410  | .8420  | .8429  |
| 126.....                    | .8345                                          | .8355  | .8364  | .8374  | .8384  | .8393  | .8403  | .8413  | .8423  | .8432  |
| 127.....                    | .8349                                          | .8359  | .8368  | .8378  | .8388  | .8397  | .8407  | .8417  | .8427  | .8436  |
| 128.....                    | .8352                                          | .8362  | .8372  | .8381  | .8391  | .8401  | .8411  | .8421  | .8430  | .8440  |
| 129.....                    | .8356                                          | .8366  | .8376  | .8385  | .8395  | .8405  | .8415  | .8425  | .8434  | .8444  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.810                                          | 0.811  | 0.812  | 0.813  | 0.814  | 0.815  | 0.816  | 0.817  | 0.818  | 0.819  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 130.....                    | 0.8360                                         | 0.8370 | 0.8379 | 0.8389 | 0.8399 | 0.8408 | 0.8418 | 0.8428 | 0.8438 | 0.8447 |
| 131.....                    | .8363                                          | .8373  | .8382  | .8392  | .8402  | .8411  | .8421  | .8431  | .8441  | .8450  |
| 132.....                    | .8367                                          | .8377  | .8386  | .8396  | .8406  | .8415  | .8425  | .8435  | .8445  | .8454  |
| 133.....                    | .8370                                          | .8380  | .8389  | .8399  | .8409  | .8418  | .8428  | .8438  | .8448  | .8457  |
| 134.....                    | .8374                                          | .8384  | .8393  | .8403  | .8413  | .8422  | .8432  | .8442  | .8452  | .8461  |
| 135.....                    | .8378                                          | .8388  | .8397  | .8407  | .8417  | .8426  | .8436  | .8446  | .8456  | .8465  |
| 136.....                    | .8381                                          | .8391  | .8400  | .8410  | .8420  | .8429  | .8439  | .8449  | .8459  | .8468  |
| 137.....                    | .8384                                          | .8394  | .8403  | .8413  | .8423  | .8432  | .8442  | .8452  | .8462  | .8471  |
| 138.....                    | .8388                                          | .8398  | .8407  | .8417  | .8427  | .8436  | .8446  | .8456  | .8466  | .8475  |
| 139.....                    | .8392                                          | .8402  | .8411  | .8421  | .8431  | .8440  | .8450  | .8460  | .8470  | .8479  |
| 140.....                    | .8396                                          | .8406  | .8415  | .8425  | .8435  | .8444  | .8454  | .8464  | .8474  | .8483  |
| 141.....                    | .8399                                          | .8409  | .8418  | .8428  | .8438  | .8447  | .8457  | .8467  | .8477  | .8486  |
| 142.....                    | .8403                                          | .8413  | .8422  | .8432  | .8442  | .8451  | .8461  | .8471  | .8481  | .8490  |
| 143.....                    | .8406                                          | .8416  | .8425  | .8435  | .8445  | .8454  | .8464  | .8474  | .8484  | .8493  |
| 144.....                    | .8410                                          | .8420  | .8429  | .8439  | .8448  | .8458  | .8468  | .8477  | .8487  | .8496  |
| 145.....                    | .8414                                          | .8424  | .8433  | .8443  | .8452  | .8462  | .8472  | .8481  | .8491  | .8500  |
| 146.....                    | .8417                                          | .8427  | .8436  | .8446  | .8455  | .8465  | .8475  | .8484  | .8494  | .8503  |
| 147.....                    | .8421                                          | .8431  | .8440  | .8450  | .8459  | .8469  | .8479  | .8488  | .8498  | .8507  |
| 148.....                    | .8424                                          | .8434  | .8443  | .8453  | .8462  | .8472  | .8482  | .8491  | .8501  | .8510  |
| 149.....                    | .8427                                          | .8437  | .8446  | .8456  | .8465  | .8475  | .8485  | .8494  | .8504  | .8513  |
| 150.....                    | .8431                                          | .8441  | .8450  | .8460  | .8469  | .8479  | .8489  | .8498  | .8508  | .8517  |
| 151.....                    | .8435                                          | .8445  | .8454  | .8464  | .8473  | .8483  | .8493  | .8502  | .8512  | .8521  |
| 152.....                    | .8438                                          | .8448  | .8457  | .8467  | .8476  | .8486  | .8496  | .8505  | .8515  | .8524  |
| 153.....                    | .8442                                          | .8452  | .8461  | .8471  | .8480  | .8490  | .8500  | .8509  | .8519  | .8528  |
| 154.....                    | .8446                                          | .8456  | .8465  | .8475  | .8484  | .8494  | .8504  | .8513  | .8523  | .8532  |
| 155.....                    | .8449                                          | .8459  | .8468  | .8478  | .8487  | .8497  | .8507  | .8516  | .8526  | .8535  |
| 156.....                    | .8453                                          | .8463  | .8472  | .8482  | .8491  | .8501  | .8511  | .8520  | .8530  | .8539  |
| 157.....                    | .8456                                          | .8466  | .8475  | .8485  | .8494  | .8504  | .8514  | .8523  | .8533  | .8542  |
| 158.....                    | .8459                                          | .8469  | .8478  | .8488  | .8497  | .8507  | .8517  | .8526  | .8536  | .8545  |
| 159.....                    | .8463                                          | .8473  | .8482  | .8492  | .8501  | .8511  | .8521  | .8530  | .8540  | .8549  |
| 160.....                    | .8466                                          | .8476  | .8485  | .8495  | .8504  | .8514  | .8524  | .8533  | .8543  | .8552  |
| 161.....                    | .8469                                          | .8479  | .8488  | .8498  | .8507  | .8517  | .8527  | .8536  | .8546  | .8555  |
| 162.....                    | .8473                                          | .8483  | .8492  | .8502  | .8511  | .8521  | .8531  | .8540  | .8550  | .8559  |
| 163.....                    | .8476                                          | .8486  | .8495  | .8505  | .8514  | .8524  | .8534  | .8543  | .8553  | .8562  |
| 164.....                    | .8480                                          | .8490  | .8499  | .8509  | .8518  | .8528  | .8538  | .8547  | .8557  | .8566  |
| 165.....                    | .8483                                          | .8493  | .8502  | .8512  | .8521  | .8531  | .8541  | .8550  | .8560  | .8569  |
| 166.....                    | .8487                                          | .8497  | .8506  | .8516  | .8525  | .8535  | .8545  | .8554  | .8564  | .8573  |
| 167.....                    | .8491                                          | .8501  | .8510  | .8520  | .8529  | .8539  | .8549  | .8558  | .8568  | .8577  |
| 168.....                    | .8494                                          | .8504  | .8513  | .8523  | .8532  | .8542  | .8552  | .8561  | .8571  | .8580  |
| 169.....                    | .8497                                          | .8507  | .8516  | .8526  | .8535  | .8545  | .8555  | .8564  | .8574  | .8583  |
| 170.....                    | .8501                                          | .8511  | .8520  | .8530  | .8539  | .8549  | .8559  | .8568  | .8578  | .8587  |
| 171.....                    | .8504                                          | .8514  | .8523  | .8533  | .8542  | .8552  | .8562  | .8571  | .8581  | .8590  |
| 172.....                    | .8508                                          | .8518  | .8527  | .8537  | .8546  | .8556  | .8565  | .8575  | .8584  | .8594  |
| 173.....                    | .8511                                          | .8521  | .8530  | .8540  | .8549  | .8559  | .8568  | .8578  | .8587  | .8597  |
| 174.....                    | .8515                                          | .8525  | .8534  | .8544  | .8553  | .8563  | .8572  | .8582  | .8591  | .8601  |
| 175.....                    | .8518                                          | .8528  | .8537  | .8547  | .8556  | .8566  | .8575  | .8585  | .8594  | .8604  |
| 176.....                    | .8521                                          | .8531  | .8540  | .8550  | .8559  | .8569  | .8578  | .8588  | .8597  | .8607  |
| 177.....                    | .8525                                          | .8535  | .8544  | .8554  | .8563  | .8573  | .8582  | .8592  | .8601  | .8611  |
| 178.....                    | .8529                                          | .8539  | .8548  | .8558  | .8567  | .8577  | .8586  | .8596  | .8605  | .8615  |
| 179.....                    | .8532                                          | .8542  | .8551  | .8561  | .8570  | .8580  | .8589  | .8599  | .8608  | .8618  |
| 180.....                    | .8536                                          | .8546  | .8555  | .8565  | .8574  | .8584  | .8593  | .8603  | .8612  | .8622  |
| 181.....                    | .8539                                          | .8549  | .8558  | .8568  | .8577  | .8587  | .8596  | .8606  | .8615  | .8625  |
| 182.....                    | .8543                                          | .8553  | .8562  | .8572  | .8581  | .8591  | .8600  | .8610  | .8619  | .8629  |
| 183.....                    | .8546                                          | .8556  | .8565  | .8575  | .8584  | .8594  | .8603  | .8613  | .8622  | .8632  |
| 184.....                    | .8550                                          | .8560  | .8569  | .8579  | .8588  | .8598  | .8607  | .8617  | .8626  | .8636  |
| 185.....                    | .8553                                          | .8563  | .8572  | .8582  | .8591  | .8601  | .8610  | .8620  | .8629  | .8639  |
| 186.....                    | .8557                                          | .8567  | .8576  | .8586  | .8595  | .8605  | .8614  | .8624  | .8633  | .8643  |
| 187.....                    | .8560                                          | .8570  | .8579  | .8589  | .8598  | .8608  | .8617  | .8627  | .8636  | .8646  |
| 188.....                    | .8564                                          | .8574  | .8583  | .8593  | .8602  | .8612  | .8621  | .8631  | .8640  | .8650  |
| 189.....                    | .8567                                          | .8577  | .8586  | .8596  | .8605  | .8615  | .8624  | .8634  | .8643  | .8653  |
| 190.....                    | .8571                                          | .8581  | .8590  | .8600  | .8609  | .8619  | .8628  | .8638  | .8647  | .8657  |
| 191.....                    | .8574                                          | .8584  | .8593  | .8603  | .8612  | .8622  | .8631  | .8641  | .8650  | .8660  |
| 192.....                    | .8577                                          | .8587  | .8596  | .8606  | .8615  | .8625  | .8634  | .8644  | .8653  | .8663  |
| 193.....                    | .8580                                          | .8590  | .8599  | .8609  | .8618  | .8628  | .8637  | .8647  | .8656  | .8666  |
| 194.....                    | .8584                                          | .8594  | .8603  | .8613  | .8622  | .8632  | .8641  | .8651  | .8660  | .8670  |
| 195.....                    | .8588                                          | .8598  | .8607  | .8617  | .8626  | .8636  | .8645  | .8655  | .8664  | .8674  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.820                                          | 0.821  | 0.822  | 0.823  | 0.824  | 0.825  | 0.826  | 0.827  | 0.828  | 0.829  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.7960                                         | 0.7970 | 0.7981 | 0.7991 | 0.8002 | 0.8012 | 0.8022 | 0.8033 | 0.8043 | 0.8054 |
| 1.....                      | .7964                                          | .7974  | .7985  | .7995  | .8006  | .8016  | .8026  | .8037  | .8047  | .8058  |
| 2.....                      | .7969                                          | .7979  | .7990  | .8000  | .8011  | .8021  | .8031  | .8042  | .8052  | .8063  |
| 3.....                      | .7973                                          | .7983  | .7994  | .8004  | .8015  | .8025  | .8035  | .8046  | .8056  | .8067  |
| 4.....                      | .7978                                          | .7988  | .7999  | .8009  | .8020  | .8030  | .8040  | .8051  | .8061  | .8072  |
| 5.....                      | .7983                                          | .7993  | .8004  | .8014  | .8025  | .8035  | .8045  | .8056  | .8066  | .8077  |
| 6.....                      | .7987                                          | .7997  | .8008  | .8018  | .8029  | .8039  | .8049  | .8060  | .8070  | .8081  |
| 7.....                      | .7992                                          | .8002  | .8013  | .8023  | .8033  | .8044  | .8054  | .8064  | .8074  | .8085  |
| 8.....                      | .7996                                          | .8006  | .8017  | .8027  | .8037  | .8048  | .8058  | .8068  | .8078  | .8089  |
| 9.....                      | .8000                                          | .8010  | .8021  | .8031  | .8041  | .8052  | .8062  | .8072  | .8082  | .8093  |
| 10.....                     | .8004                                          | .8014  | .8025  | .8035  | .8045  | .8056  | .8066  | .8076  | .8086  | .8097  |
| 11.....                     | .8008                                          | .8018  | .8029  | .8039  | .8049  | .8060  | .8070  | .8080  | .8090  | .8101  |
| 12.....                     | .8012                                          | .8022  | .8033  | .8043  | .8053  | .8064  | .8074  | .8084  | .8094  | .8105  |
| 13.....                     | .8016                                          | .8026  | .8037  | .8047  | .8057  | .8068  | .8078  | .8088  | .8098  | .8109  |
| 14.....                     | .8020                                          | .8030  | .8041  | .8051  | .8061  | .8072  | .8082  | .8092  | .8102  | .8113  |
| 15.....                     | .8024                                          | .8034  | .8045  | .8055  | .8065  | .8076  | .8086  | .8096  | .8106  | .8117  |
| 16.....                     | .8028                                          | .8038  | .8049  | .8059  | .8069  | .8080  | .8090  | .8100  | .8110  | .8121  |
| 17.....                     | .8032                                          | .8042  | .8053  | .8063  | .8073  | .8084  | .8094  | .8104  | .8114  | .8125  |
| 18.....                     | .8036                                          | .8046  | .8056  | .8067  | .8077  | .8087  | .8097  | .8107  | .8118  | .8128  |
| 19.....                     | .8040                                          | .8050  | .8060  | .8071  | .8081  | .8091  | .8101  | .8111  | .8122  | .8132  |
| 20.....                     | .8044                                          | .8054  | .8064  | .8075  | .8085  | .8095  | .8105  | .8115  | .8126  | .8136  |
| 21.....                     | .8048                                          | .8058  | .8068  | .8079  | .8089  | .8099  | .8109  | .8119  | .8130  | .8140  |
| 22.....                     | .8052                                          | .8062  | .8072  | .8083  | .8093  | .8103  | .8113  | .8123  | .8134  | .8144  |
| 23.....                     | .8056                                          | .8066  | .8076  | .8087  | .8097  | .8107  | .8117  | .8127  | .8138  | .8148  |
| 24.....                     | .8060                                          | .8070  | .8080  | .8091  | .8101  | .8111  | .8121  | .8131  | .8142  | .8152  |
| 25.....                     | .8064                                          | .8074  | .8084  | .8095  | .8105  | .8115  | .8125  | .8135  | .8146  | .8156  |
| 26.....                     | .8068                                          | .8078  | .8088  | .8099  | .8109  | .8119  | .8129  | .8139  | .8150  | .8160  |
| 27.....                     | .8072                                          | .8082  | .8092  | .8103  | .8113  | .8123  | .8133  | .8143  | .8154  | .8164  |
| 28.....                     | .8076                                          | .8086  | .8096  | .8107  | .8117  | .8127  | .8137  | .8147  | .8158  | .8168  |
| 29.....                     | .8080                                          | .8090  | .8100  | .8111  | .8121  | .8131  | .8141  | .8151  | .8162  | .8172  |
| 30.....                     | .8084                                          | .8094  | .8104  | .8115  | .8125  | .8135  | .8145  | .8155  | .8166  | .8176  |
| 31.....                     | .8087                                          | .8097  | .8107  | .8118  | .8128  | .8138  | .8148  | .8158  | .8169  | .8179  |
| 32.....                     | .8091                                          | .8101  | .8111  | .8122  | .8132  | .8142  | .8152  | .8162  | .8173  | .8183  |
| 33.....                     | .8095                                          | .8105  | .8115  | .8126  | .8136  | .8146  | .8156  | .8166  | .8177  | .8187  |
| 34.....                     | .8099                                          | .8109  | .8119  | .8129  | .8139  | .8150  | .8160  | .8170  | .8180  | .8190  |
| 35.....                     | .8103                                          | .8113  | .8123  | .8133  | .8143  | .8154  | .8164  | .8174  | .8184  | .8194  |
| 36.....                     | .8107                                          | .8117  | .8127  | .8137  | .8147  | .8158  | .8168  | .8178  | .8188  | .8198  |
| 37.....                     | .8111                                          | .8121  | .8131  | .8141  | .8151  | .8162  | .8172  | .8182  | .8192  | .8202  |
| 38.....                     | .8115                                          | .8125  | .8135  | .8145  | .8155  | .8166  | .8176  | .8186  | .8196  | .8206  |
| 39.....                     | .8119                                          | .8129  | .8139  | .8149  | .8159  | .8170  | .8180  | .8190  | .8200  | .8210  |
| 40.....                     | .8123                                          | .8133  | .8143  | .8153  | .8163  | .8174  | .8184  | .8194  | .8204  | .8214  |
| 41.....                     | .8127                                          | .8137  | .8147  | .8157  | .8167  | .8178  | .8188  | .8198  | .8208  | .8218  |
| 42.....                     | .8131                                          | .8141  | .8151  | .8161  | .8171  | .8181  | .8191  | .8201  | .8211  | .8221  |
| 43.....                     | .8135                                          | .8145  | .8155  | .8165  | .8175  | .8185  | .8195  | .8205  | .8215  | .8225  |
| 44.....                     | .8139                                          | .8149  | .8159  | .8169  | .8179  | .8188  | .8198  | .8208  | .8218  | .8228  |
| 45.....                     | .8143                                          | .8153  | .8163  | .8173  | .8183  | .8192  | .8202  | .8212  | .8222  | .8232  |
| 46.....                     | .8147                                          | .8157  | .8167  | .8177  | .8187  | .8196  | .8206  | .8216  | .8226  | .8236  |
| 47.....                     | .8151                                          | .8161  | .8171  | .8181  | .8191  | .8200  | .8210  | .8220  | .8230  | .8240  |
| 48.....                     | .8155                                          | .8165  | .8175  | .8185  | .8195  | .8204  | .8214  | .8224  | .8234  | .8244  |
| 49.....                     | .8159                                          | .8169  | .8179  | .8189  | .8199  | .8208  | .8218  | .8228  | .8238  | .8248  |
| 50.....                     | .8162                                          | .8172  | .8182  | .8192  | .8202  | .8212  | .8222  | .8232  | .8242  | .8252  |
| 51.....                     | .8166                                          | .8176  | .8186  | .8196  | .8206  | .8215  | .8225  | .8235  | .8245  | .8255  |
| 52.....                     | .8170                                          | .8180  | .8190  | .8200  | .8210  | .8219  | .8229  | .8239  | .8249  | .8259  |
| 53.....                     | .8174                                          | .8184  | .8194  | .8204  | .8214  | .8223  | .8233  | .8243  | .8253  | .8263  |
| 54.....                     | .8177                                          | .8187  | .8197  | .8207  | .8217  | .8227  | .8237  | .8247  | .8257  | .8267  |
| 55.....                     | .8181                                          | .8191  | .8201  | .8211  | .8221  | .8231  | .8241  | .8251  | .8261  | .8271  |
| 56.....                     | .8185                                          | .8195  | .8205  | .8215  | .8225  | .8235  | .8245  | .8255  | .8265  | .8275  |
| 57.....                     | .8188                                          | .8198  | .8208  | .8218  | .8228  | .8238  | .8248  | .8258  | .8268  | .8278  |
| 58.....                     | .8192                                          | .8202  | .8212  | .8222  | .8232  | .8242  | .8252  | .8262  | .8272  | .8282  |
| 59.....                     | .8196                                          | .8206  | .8216  | .8226  | .8236  | .8246  | .8256  | .8266  | .8276  | .8286  |
| 60.....                     | .8200                                          | .8210  | .8220  | .8230  | .8240  | .8250  | .8260  | .8270  | .8280  | .8290  |
| 61.....                     | .8204                                          | .8214  | .8224  | .8234  | .8244  | .8254  | .8264  | .8274  | .8284  | .8294  |
| 62.....                     | .8207                                          | .8217  | .8227  | .8237  | .8247  | .8257  | .8267  | .8277  | .8287  | .8297  |
| 63.....                     | .8210                                          | .8220  | .8230  | .8240  | .8250  | .8260  | .8270  | .8280  | .8290  | .8300  |
| 64.....                     | .8214                                          | .8224  | .8234  | .8244  | .8254  | .8264  | .8274  | .8284  | .8294  | .8304  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.820                                          | 0.821  | 0.822  | 0.823  | 0.824  | 0.825  | 0.826  | 0.827  | 0.828  | 0.829  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                     | 0.8218                                         | 0.8228 | 0.8238 | 0.8248 | 0.8258 | 0.8268 | 0.8278 | 0.8288 | 0.8298 | 0.8308 |
| 66.....                     | .8222                                          | .8232  | .8242  | .8252  | .8262  | .8272  | .8282  | .8292  | .8302  | .8312  |
| 67.....                     | .8226                                          | .8236  | .8246  | .8256  | .8266  | .8276  | .8286  | .8296  | .8306  | .8316  |
| 68.....                     | .8230                                          | .8240  | .8250  | .8260  | .8270  | .8280  | .8290  | .8300  | .8310  | .8320  |
| 69.....                     | .8234                                          | .8244  | .8254  | .8264  | .8274  | .8283  | .8293  | .8303  | .8313  | .8323  |
| 70.....                     | .8237                                          | .8247  | .8257  | .8267  | .8277  | .8287  | .8297  | .8307  | .8317  | .8327  |
| 71.....                     | .8241                                          | .8251  | .8261  | .8271  | .8281  | .8290  | .8300  | .8310  | .8320  | .8330  |
| 72.....                     | .8245                                          | .8255  | .8265  | .8275  | .8285  | .8294  | .8304  | .8314  | .8324  | .8334  |
| 73.....                     | .8249                                          | .8259  | .8269  | .8279  | .8289  | .8298  | .8308  | .8318  | .8328  | .8338  |
| 74.....                     | .8253                                          | .8263  | .8273  | .8283  | .8293  | .8302  | .8312  | .8322  | .8332  | .8342  |
| 75.....                     | .8257                                          | .8267  | .8277  | .8287  | .8297  | .8306  | .8316  | .8326  | .8336  | .8346  |
| 76.....                     | .8261                                          | .8270  | .8281  | .8291  | .8301  | .8310  | .8320  | .8330  | .8340  | .8350  |
| 77.....                     | .8264                                          | .8274  | .8284  | .8294  | .8304  | .8313  | .8323  | .8333  | .8343  | .8353  |
| 78.....                     | .8268                                          | .8278  | .8288  | .8298  | .8308  | .8317  | .8327  | .8337  | .8347  | .8357  |
| 79.....                     | .8272                                          | .8282  | .8292  | .8302  | .8312  | .8321  | .8331  | .8341  | .8351  | .8361  |
| 80.....                     | .8276                                          | .8286  | .8296  | .8306  | .8316  | .8325  | .8335  | .8345  | .8355  | .8365  |
| 81.....                     | .8280                                          | .8290  | .8300  | .8310  | .8320  | .8329  | .8339  | .8349  | .8359  | .8369  |
| 82.....                     | .8283                                          | .8293  | .8303  | .8313  | .8323  | .8332  | .8342  | .8352  | .8362  | .8372  |
| 83.....                     | .8287                                          | .8297  | .8307  | .8317  | .8327  | .8336  | .8346  | .8356  | .8366  | .8376  |
| 84.....                     | .8291                                          | .8301  | .8311  | .8321  | .8331  | .8340  | .8350  | .8360  | .8370  | .8380  |
| 85.....                     | .8295                                          | .8305  | .8315  | .8325  | .8335  | .8344  | .8354  | .8364  | .8374  | .8384  |
| 86.....                     | .8299                                          | .8309  | .8319  | .8329  | .8339  | .8348  | .8358  | .8368  | .8378  | .8388  |
| 87.....                     | .8302                                          | .8312  | .8322  | .8332  | .8342  | .8351  | .8361  | .8371  | .8381  | .8391  |
| 88.....                     | .8305                                          | .8315  | .8325  | .8335  | .8345  | .8354  | .8364  | .8374  | .8384  | .8394  |
| 89.....                     | .8309                                          | .8319  | .8329  | .8339  | .8349  | .8358  | .8368  | .8378  | .8388  | .8398  |
| 90.....                     | .8312                                          | .8322  | .8332  | .8342  | .8352  | .8361  | .8371  | .8381  | .8391  | .8401  |
| 91.....                     | .8316                                          | .8326  | .8336  | .8346  | .8356  | .8365  | .8375  | .8385  | .8395  | .8405  |
| 92.....                     | .8320                                          | .8330  | .8340  | .8350  | .8360  | .8369  | .8379  | .8389  | .8399  | .8409  |
| 93.....                     | .8323                                          | .8333  | .8343  | .8353  | .8363  | .8372  | .8382  | .8392  | .8402  | .8412  |
| 94.....                     | .8327                                          | .8337  | .8347  | .8356  | .8366  | .8376  | .8386  | .8396  | .8405  | .8415  |
| 95.....                     | .8331                                          | .8341  | .8351  | .8360  | .8370  | .8380  | .8390  | .8400  | .8409  | .8419  |
| 96.....                     | .8334                                          | .8344  | .8354  | .8363  | .8373  | .8383  | .8393  | .8403  | .8412  | .8422  |
| 97.....                     | .8337                                          | .8347  | .8357  | .8367  | .8377  | .8386  | .8396  | .8406  | .8416  | .8426  |
| 98.....                     | .8341                                          | .8351  | .8361  | .8370  | .8380  | .8390  | .8400  | .8410  | .8419  | .8429  |
| 99.....                     | .8344                                          | .8354  | .8364  | .8373  | .8383  | .8393  | .8403  | .8413  | .8422  | .8432  |
| 100.....                    | .8348                                          | .8358  | .8368  | .8377  | .8387  | .8397  | .8407  | .8417  | .8426  | .8436  |
| 101.....                    | .8352                                          | .8362  | .8372  | .8381  | .8391  | .8401  | .8411  | .8421  | .8430  | .8440  |
| 102.....                    | .8356                                          | .8366  | .8376  | .8385  | .8395  | .8405  | .8415  | .8425  | .8434  | .8444  |
| 103.....                    | .8360                                          | .8370  | .8380  | .8389  | .8399  | .8409  | .8419  | .8429  | .8438  | .8448  |
| 104.....                    | .8364                                          | .8374  | .8384  | .8393  | .8403  | .8413  | .8423  | .8433  | .8442  | .8452  |
| 105.....                    | .8367                                          | .8377  | .8387  | .8397  | .8407  | .8416  | .8426  | .8436  | .8446  | .8456  |
| 106.....                    | .8370                                          | .8380  | .8390  | .8400  | .8410  | .8419  | .8429  | .8439  | .8449  | .8459  |
| 107.....                    | .8374                                          | .8384  | .8394  | .8403  | .8413  | .8423  | .8433  | .8443  | .8452  | .8462  |
| 108.....                    | .8378                                          | .8388  | .8398  | .8407  | .8417  | .8427  | .8437  | .8447  | .8456  | .8466  |
| 109.....                    | .8382                                          | .8392  | .8402  | .8411  | .8421  | .8431  | .8441  | .8451  | .8560  | .8470  |
| 110.....                    | .8385                                          | .8395  | .8405  | .8414  | .8424  | .8434  | .8444  | .8454  | .8463  | .8473  |
| 111.....                    | .8389                                          | .8399  | .8409  | .8418  | .8428  | .8438  | .8448  | .8458  | .8467  | .8477  |
| 112.....                    | .8393                                          | .8403  | .8413  | .8422  | .8432  | .8442  | .8452  | .8462  | .8471  | .8481  |
| 113.....                    | .8397                                          | .8407  | .8417  | .8426  | .8436  | .8446  | .8456  | .8466  | .8475  | .8485  |
| 114.....                    | .8400                                          | .8410  | .8420  | .8429  | .8439  | .8449  | .8459  | .8469  | .8478  | .8488  |
| 115.....                    | .8404                                          | .8414  | .8424  | .8433  | .8443  | .8453  | .8463  | .8473  | .8482  | .8492  |
| 116.....                    | .8407                                          | .8417  | .8427  | .8436  | .8446  | .8456  | .8466  | .8476  | .8485  | .8495  |
| 117.....                    | .8411                                          | .8421  | .8431  | .8440  | .8450  | .8460  | .8470  | .8480  | .8489  | .8499  |
| 118.....                    | .8415                                          | .8425  | .8435  | .8444  | .8454  | .8464  | .8474  | .8484  | .8493  | .8503  |
| 119.....                    | .8418                                          | .8428  | .8438  | .8447  | .8457  | .8467  | .8477  | .8487  | .8496  | .8506  |
| 120.....                    | .8421                                          | .8431  | .8441  | .8450  | .8460  | .8470  | .8480  | .8490  | .8499  | .8509  |
| 121.....                    | .8425                                          | .8435  | .8445  | .8454  | .8464  | .8474  | .8484  | .8494  | .8503  | .8513  |
| 122.....                    | .8429                                          | .8439  | .8449  | .8458  | .8468  | .8478  | .8488  | .8498  | .8507  | .8517  |
| 123.....                    | .8432                                          | .8442  | .8452  | .8461  | .8471  | .8481  | .8491  | .8501  | .8510  | .8520  |
| 124.....                    | .8435                                          | .8445  | .8455  | .8464  | .8474  | .8484  | .8494  | .8504  | .8513  | .8523  |
| 125.....                    | .8439                                          | .8449  | .8459  | .8468  | .8478  | .8488  | .8498  | .8508  | .8517  | .8527  |
| 126.....                    | .8442                                          | .8452  | .8462  | .8471  | .8481  | .8491  | .8501  | .8511  | .8520  | .8530  |
| 127.....                    | .8446                                          | .8456  | .8466  | .8475  | .8485  | .8495  | .8505  | .8515  | .8524  | .8534  |
| 128.....                    | .8450                                          | .8460  | .8470  | .8479  | .8489  | .8499  | .8509  | .8519  | .8528  | .8538  |
| 129.....                    | .8454                                          | .8464  | .8474  | .8483  | .8493  | .8503  | .8513  | .8523  | .8532  | .8542  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.820                                          | 0.821  | 0.822  | 0.823  | 0.824  | 0.825  | 0.826  | 0.827  | 0.828  | 0.829  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 130.....                    | 0.8457                                         | 0.8467 | 0.8477 | 0.8486 | 0.8496 | 0.8506 | 0.8516 | 0.8526 | 0.8535 | 0.8545 |
| 131.....                    | .8460                                          | .8470  | .8480  | .8489  | .8499  | .8509  | .8519  | .8529  | .8538  | .8548  |
| 132.....                    | .8464                                          | .8474  | .8484  | .8493  | .8503  | .8513  | .8523  | .8533  | .8542  | .8552  |
| 133.....                    | .8467                                          | .8477  | .8487  | .8496  | .8506  | .8516  | .8526  | .8536  | .8545  | .8555  |
| 134.....                    | .8471                                          | .8481  | .8491  | .8500  | .8510  | .8520  | .8530  | .8540  | .8549  | .8559  |
| 135.....                    | .8475                                          | .8485  | .8494  | .8504  | .8514  | .8523  | .8533  | .8543  | .8553  | .8562  |
| 136.....                    | .8478                                          | .8488  | .8497  | .8507  | .8517  | .8526  | .8536  | .8546  | .8556  | .8565  |
| 137.....                    | .8481                                          | .8491  | .8500  | .8510  | .8520  | .8529  | .8539  | .8549  | .8559  | .8568  |
| 138.....                    | .8485                                          | .8495  | .8504  | .8514  | .8524  | .8533  | .8543  | .8553  | .8563  | .8572  |
| 139.....                    | .8489                                          | .8499  | .8508  | .8518  | .8528  | .8537  | .8547  | .8557  | .8567  | .8576  |
| 140.....                    | .8493                                          | .8503  | .8512  | .8522  | .8532  | .8541  | .8551  | .8561  | .8571  | .8580  |
| 141.....                    | .8496                                          | .8506  | .8515  | .8525  | .8535  | .8544  | .8554  | .8564  | .8574  | .8583  |
| 142.....                    | .8500                                          | .8510  | .8519  | .8529  | .8539  | .8548  | .8558  | .8568  | .8578  | .8587  |
| 143.....                    | .8503                                          | .8513  | .8522  | .8532  | .8542  | .8551  | .8561  | .8571  | .8581  | .8590  |
| 144.....                    | .8506                                          | .8516  | .8525  | .8535  | .8545  | .8554  | .8564  | .8574  | .8584  | .8593  |
| 145.....                    | .8510                                          | .8520  | .8529  | .8539  | .8549  | .8558  | .8568  | .8578  | .8588  | .8597  |
| 146.....                    | .8513                                          | .8523  | .8532  | .8542  | .8552  | .8561  | .8571  | .8581  | .8591  | .8600  |
| 147.....                    | .8517                                          | .8527  | .8536  | .8546  | .8556  | .8565  | .8575  | .8585  | .8595  | .8604  |
| 148.....                    | .8520                                          | .8530  | .8539  | .8549  | .8559  | .8568  | .8578  | .8588  | .8598  | .8607  |
| 149.....                    | .8523                                          | .8533  | .8542  | .8552  | .8562  | .8571  | .8581  | .8591  | .8601  | .8610  |
| 150.....                    | .8527                                          | .8537  | .8546  | .8556  | .8565  | .8575  | .8585  | .8594  | .8604  | .8613  |
| 151.....                    | .8531                                          | .8541  | .8550  | .8560  | .8569  | .8579  | .8589  | .8598  | .8608  | .8617  |
| 152.....                    | .8534                                          | .8544  | .8553  | .8563  | .8572  | .8582  | .8592  | .8601  | .8611  | .8620  |
| 153.....                    | .8538                                          | .8548  | .8557  | .8567  | .8576  | .8586  | .8596  | .8605  | .8615  | .8624  |
| 154.....                    | .8542                                          | .8552  | .8561  | .8571  | .8580  | .8590  | .8600  | .8609  | .8619  | .8628  |
| 155.....                    | .8545                                          | .8555  | .8564  | .8574  | .8583  | .8593  | .8603  | .8612  | .8622  | .8631  |
| 156.....                    | .8549                                          | .8559  | .8568  | .8578  | .8587  | .8597  | .8607  | .8616  | .8626  | .8635  |
| 157.....                    | .8552                                          | .8562  | .8571  | .8581  | .8590  | .8600  | .8610  | .8619  | .8629  | .8638  |
| 158.....                    | .8555                                          | .8565  | .8574  | .8584  | .8594  | .8603  | .8613  | .8623  | .8633  | .8642  |
| 159.....                    | .8559                                          | .8569  | .8578  | .8588  | .8597  | .8607  | .8617  | .8626  | .8636  | .8645  |
| 160.....                    | .8562                                          | .8572  | .8581  | .8591  | .8601  | .8610  | .8620  | .8630  | .8640  | .8649  |
| 161.....                    | .8565                                          | .8575  | .8584  | .8594  | .8604  | .8613  | .8623  | .8633  | .8643  | .8652  |
| 162.....                    | .8569                                          | .8579  | .8588  | .8598  | .8607  | .8617  | .8627  | .8636  | .8646  | .8655  |
| 163.....                    | .8572                                          | .8582  | .8591  | .8601  | .8611  | .8620  | .8630  | .8640  | .8650  | .8659  |
| 164.....                    | .8576                                          | .8586  | .8595  | .8605  | .8614  | .8624  | .8634  | .8643  | .8653  | .8662  |
| 165.....                    | .8579                                          | .8589  | .8598  | .8608  | .8618  | .8627  | .8637  | .8647  | .8657  | .8666  |
| 166.....                    | .8583                                          | .8593  | .8602  | .8612  | .8621  | .8631  | .8641  | .8650  | .8660  | .8669  |
| 167.....                    | .8587                                          | .8597  | .8606  | .8616  | .8625  | .8635  | .8645  | .8654  | .8664  | .8673  |
| 168.....                    | .8590                                          | .8600  | .8609  | .8619  | .8628  | .8638  | .8648  | .8657  | .8667  | .8676  |
| 169.....                    | .8593                                          | .8603  | .8612  | .8622  | .8632  | .8641  | .8651  | .8661  | .8671  | .8680  |
| 170.....                    | .8597                                          | .8607  | .8616  | .8626  | .8635  | .8645  | .8655  | .8664  | .8674  | .8683  |
| 171.....                    | .8600                                          | .8610  | .8619  | .8629  | .8638  | .8648  | .8658  | .8667  | .8677  | .8686  |
| 172.....                    | .8603                                          | .8613  | .8622  | .8632  | .8641  | .8651  | .8661  | .8670  | .8680  | .8689  |
| 173.....                    | .8606                                          | .8616  | .8625  | .8635  | .8645  | .8654  | .8664  | .8674  | .8684  | .8693  |
| 174.....                    | .8610                                          | .8620  | .8629  | .8639  | .8649  | .8658  | .8668  | .8678  | .8688  | .8697  |
| 175.....                    | .8613                                          | .8623  | .8632  | .8642  | .8652  | .8661  | .8671  | .8681  | .8691  | .8700  |
| 176.....                    | .8615                                          | .8626  | .8635  | .8645  | .8655  | .8664  | .8674  | .8684  | .8694  | .8703  |
| 177.....                    | .8620                                          | .8630  | .8639  | .8649  | .8658  | .8668  | .8678  | .8687  | .8697  | .8706  |
| 178.....                    | .8624                                          | .8634  | .8643  | .8653  | .8662  | .8672  | .8682  | .8691  | .8701  | .8710  |
| 179.....                    | .8627                                          | .8637  | .8646  | .8656  | .8665  | .8675  | .8685  | .8694  | .8704  | .8713  |
| 180.....                    | .8631                                          | .8641  | .8650  | .8660  | .8669  | .8679  | .8689  | .8698  | .8708  | .8717  |
| 181.....                    | .8634                                          | .8644  | .8653  | .8663  | .8672  | .8682  | .8692  | .8701  | .8711  | .8720  |
| 182.....                    | .8638                                          | .8648  | .8657  | .8667  | .8676  | .8686  | .8696  | .8705  | .8715  | .8724  |
| 183.....                    | .8641                                          | .8651  | .8660  | .8670  | .8679  | .8689  | .8699  | .8708  | .8718  | .8727  |
| 184.....                    | .8645                                          | .8655  | .8664  | .8674  | .8683  | .8693  | .8703  | .8712  | .8722  | .8731  |
| 185.....                    | .8648                                          | .8658  | .8667  | .8677  | .8686  | .8696  | .8706  | .8715  | .8725  | .8734  |
| 186.....                    | .8652                                          | .8662  | .8671  | .8681  | .8690  | .8700  | .8710  | .8719  | .8729  | .8738  |
| 187.....                    | .8655                                          | .8665  | .8674  | .8684  | .8693  | .8703  | .8713  | .8722  | .8732  | .8741  |
| 188.....                    | .8659                                          | .8669  | .8678  | .8688  | .8697  | .8707  | .8717  | .8726  | .8736  | .8745  |
| 189.....                    | .8662                                          | .8672  | .8681  | .8691  | .8700  | .8710  | .8720  | .8729  | .8739  | .8748  |
| 190.....                    | .8666                                          | .8676  | .8685  | .8695  | .8704  | .8714  | .8724  | .8733  | .8743  | .8752  |
| 191.....                    | .8669                                          | .8679  | .8688  | .8698  | .8707  | .8717  | .8727  | .8736  | .8746  | .8755  |
| 192.....                    | .8672                                          | .8682  | .8691  | .8701  | .8710  | .8720  | .8730  | .8739  | .8749  | .8758  |
| 193.....                    | .8675                                          | .8685  | .8694  | .8704  | .8713  | .8723  | .8733  | .8742  | .8752  | .8761  |
| 194.....                    | .8679                                          | .8689  | .8698  | .8708  | .8717  | .8727  | .8737  | .8746  | .8756  | .8765  |
| 195.....                    | .8683                                          | .8693  | .8702  | .8712  | .8721  | .8731  | .8740  | .8750  | .8759  | .8769  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.830                                          | 0.831  | 0.832  | 0.833  | 0.834  | 0.835  | 0.836  | 0.837  | 0.838  | 0.839  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.8064                                         | 0.8074 | 0.8085 | 0.8095 | 0.8106 | 0.8116 | 0.8126 | 0.8137 | 0.8147 | 0.8158 |
| 1.....                      | .8068                                          | .8078  | .8089  | .8099  | .8110  | .8120  | .8130  | .8141  | .8151  | .8162  |
| 2.....                      | .8073                                          | .8083  | .8094  | .8104  | .8115  | .8125  | .8135  | .8146  | .8156  | .8167  |
| 3.....                      | .8077                                          | .8087  | .8098  | .8108  | .8119  | .8129  | .8139  | .8150  | .8160  | .8171  |
| 4.....                      | .8082                                          | .8092  | .8103  | .8113  | .8124  | .8134  | .8144  | .8155  | .8165  | .8176  |
| 5.....                      | .8087                                          | .8097  | .8108  | .8118  | .8128  | .8139  | .8149  | .8159  | .8169  | .8180  |
| 6.....                      | .8091                                          | .8101  | .8112  | .8122  | .8132  | .8143  | .8153  | .8163  | .8173  | .8184  |
| 7.....                      | .8095                                          | .8105  | .8116  | .8126  | .8136  | .8147  | .8157  | .8167  | .8177  | .8188  |
| 8.....                      | .8099                                          | .8109  | .8120  | .8130  | .8140  | .8151  | .8161  | .8171  | .8181  | .8192  |
| 9.....                      | .8103                                          | .8113  | .8124  | .8134  | .8144  | .8155  | .8165  | .8175  | .8185  | .8196  |
| 10.....                     | .8107                                          | .8117  | .8128  | .8138  | .8148  | .8159  | .8169  | .8179  | .8189  | .8200  |
| 11.....                     | .8111                                          | .8121  | .8132  | .8142  | .8152  | .8163  | .8173  | .8183  | .8193  | .8204  |
| 12.....                     | .8115                                          | .8125  | .8136  | .8146  | .8156  | .8167  | .8177  | .8187  | .8197  | .8208  |
| 13.....                     | .8119                                          | .8129  | .8140  | .8150  | .8160  | .8171  | .8181  | .8191  | .8201  | .8212  |
| 14.....                     | .8123                                          | .8133  | .8143  | .8154  | .8164  | .8174  | .8184  | .8194  | .8205  | .8215  |
| 15.....                     | .8127                                          | .8137  | .8147  | .8158  | .8168  | .8178  | .8188  | .8198  | .8209  | .8219  |
| 16.....                     | .8131                                          | .8141  | .8151  | .8162  | .8172  | .8182  | .8192  | .8202  | .8213  | .8223  |
| 17.....                     | .8135                                          | .8145  | .8155  | .8166  | .8176  | .8186  | .8196  | .8206  | .8217  | .8227  |
| 18.....                     | .8138                                          | .8148  | .8158  | .8169  | .8179  | .8189  | .8199  | .8209  | .8220  | .8230  |
| 19.....                     | .8142                                          | .8152  | .8162  | .8173  | .8183  | .8193  | .8203  | .8213  | .8224  | .8234  |
| 20.....                     | .8146                                          | .8156  | .8166  | .8177  | .8187  | .8197  | .8207  | .8217  | .8228  | .8238  |
| 21.....                     | .8150                                          | .8160  | .8170  | .8181  | .8191  | .8201  | .8211  | .8221  | .8232  | .8242  |
| 22.....                     | .8154                                          | .8164  | .8174  | .8185  | .8195  | .8205  | .8215  | .8225  | .8236  | .8246  |
| 23.....                     | .8158                                          | .8168  | .8178  | .8189  | .8199  | .8209  | .8219  | .8229  | .8240  | .8250  |
| 24.....                     | .8162                                          | .8172  | .8182  | .8193  | .8203  | .8213  | .8223  | .8233  | .8244  | .8254  |
| 25.....                     | .8166                                          | .8176  | .8186  | .8197  | .8207  | .8217  | .8227  | .8237  | .8248  | .8258  |
| 26.....                     | .8170                                          | .8180  | .8190  | .8201  | .8211  | .8221  | .8231  | .8241  | .8252  | .8262  |
| 27.....                     | .8174                                          | .8184  | .8194  | .8205  | .8215  | .8225  | .8235  | .8245  | .8256  | .8266  |
| 28.....                     | .8178                                          | .8188  | .8198  | .8209  | .8219  | .8229  | .8239  | .8249  | .8260  | .8270  |
| 29.....                     | .8182                                          | .8192  | .8202  | .8213  | .8223  | .8233  | .8243  | .8253  | .8264  | .8274  |
| 30.....                     | .8186                                          | .8196  | .8206  | .8217  | .8227  | .8237  | .8247  | .8257  | .8268  | .8278  |
| 31.....                     | .8189                                          | .8199  | .8209  | .8220  | .8230  | .8240  | .8250  | .8260  | .8271  | .8281  |
| 32.....                     | .8193                                          | .8203  | .8213  | .8224  | .8234  | .8244  | .8254  | .8264  | .8275  | .8285  |
| 33.....                     | .8197                                          | .8207  | .8217  | .8228  | .8238  | .8248  | .8258  | .8268  | .8279  | .8289  |
| 34.....                     | .8200                                          | .8210  | .8220  | .8231  | .8241  | .8251  | .8261  | .8271  | .8282  | .8292  |
| 35.....                     | .8204                                          | .8214  | .8224  | .8235  | .8245  | .8255  | .8265  | .8275  | .8286  | .8296  |
| 36.....                     | .8208                                          | .8218  | .8228  | .8239  | .8249  | .8259  | .8269  | .8279  | .8290  | .8300  |
| 37.....                     | .8212                                          | .8222  | .8232  | .8243  | .8253  | .8263  | .8273  | .8283  | .8294  | .8304  |
| 38.....                     | .8216                                          | .8226  | .8236  | .8246  | .8256  | .8267  | .8277  | .8287  | .8297  | .8307  |
| 39.....                     | .8220                                          | .8230  | .8240  | .8250  | .8260  | .8271  | .8281  | .8291  | .8301  | .8311  |
| 40.....                     | .8224                                          | .8234  | .8244  | .8254  | .8264  | .8275  | .8285  | .8295  | .8305  | .8315  |
| 41.....                     | .8228                                          | .8238  | .8248  | .8258  | .8268  | .8279  | .8289  | .8299  | .8309  | .8319  |
| 42.....                     | .8231                                          | .8241  | .8251  | .8262  | .8272  | .8282  | .8292  | .8302  | .8313  | .8323  |
| 43.....                     | .8235                                          | .8245  | .8255  | .8265  | .8275  | .8286  | .8296  | .8306  | .8316  | .8326  |
| 44.....                     | .8238                                          | .8248  | .8258  | .8269  | .8279  | .8289  | .8299  | .8309  | .8320  | .8330  |
| 45.....                     | .8242                                          | .8252  | .8262  | .8272  | .8282  | .8293  | .8303  | .8313  | .8323  | .8333  |
| 46.....                     | .8246                                          | .8256  | .8266  | .8276  | .8286  | .8297  | .8307  | .8317  | .8327  | .8337  |
| 47.....                     | .8250                                          | .8260  | .8270  | .8280  | .8290  | .8301  | .8311  | .8321  | .8331  | .8341  |
| 48.....                     | .8254                                          | .8264  | .8274  | .8284  | .8294  | .8305  | .8315  | .8325  | .8335  | .8345  |
| 49.....                     | .8258                                          | .8268  | .8278  | .8288  | .8298  | .8309  | .8319  | .8329  | .8339  | .8349  |
| 50.....                     | .8262                                          | .8272  | .8282  | .8292  | .8302  | .8313  | .8323  | .8333  | .8343  | .8353  |
| 51.....                     | .8265                                          | .8275  | .8285  | .8295  | .8305  | .8316  | .8326  | .8336  | .8346  | .8356  |
| 52.....                     | .8269                                          | .8279  | .8289  | .8299  | .8309  | .8320  | .8330  | .8340  | .8350  | .8360  |
| 53.....                     | .8273                                          | .8283  | .8293  | .8303  | .8313  | .8324  | .8334  | .8344  | .8354  | .8364  |
| 54.....                     | .8277                                          | .8287  | .8297  | .8307  | .8317  | .8327  | .8337  | .8347  | .8357  | .8367  |
| 55.....                     | .8281                                          | .8291  | .8301  | .8311  | .8321  | .8331  | .8341  | .8351  | .8361  | .8371  |
| 56.....                     | .8285                                          | .8295  | .8305  | .8315  | .8325  | .8335  | .8345  | .8355  | .8365  | .8375  |
| 57.....                     | .8288                                          | .8298  | .8308  | .8318  | .8328  | .8339  | .8349  | .8359  | .8369  | .8379  |
| 58.....                     | .8292                                          | .8302  | .8312  | .8322  | .8332  | .8343  | .8353  | .8363  | .8373  | .8383  |
| 59.....                     | .8296                                          | .8306  | .8316  | .8326  | .8336  | .8346  | .8356  | .8366  | .8376  | .8386  |
| 60.....                     | .8300                                          | .8310  | .8320  | .8330  | .8340  | .8350  | .8360  | .8370  | .8380  | .8390  |
| 61.....                     | .8304                                          | .8314  | .8324  | .8334  | .8344  | .8354  | .8364  | .8374  | .8384  | .8394  |
| 62.....                     | .8307                                          | .8317  | .8327  | .8337  | .8347  | .8357  | .8367  | .8377  | .8387  | .8397  |
| 63.....                     | .8310                                          | .8320  | .8330  | .8340  | .8350  | .8360  | .8370  | .8380  | .8390  | .8400  |
| 64.....                     | .8314                                          | .8324  | .8334  | .8344  | .8354  | .8364  | .8374  | .8384  | .8394  | .8404  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed tempera-<br>ture in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|----------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                  | 0.830                                          | 0.831  | 0.832  | 0.833  | 0.834  | 0.835  | 0.836  | 0.837  | 0.838  | 0.839  |
|                                  | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                          | 0.8318                                         | 0.8328 | 0.8338 | 0.8348 | 0.8358 | 0.8368 | 0.8378 | 0.8388 | 0.8398 | 0.8408 |
| 66.....                          | .8322                                          | .8332  | .8342  | .8352  | .8362  | .8372  | .8382  | .8392  | .8402  | .8412  |
| 67.....                          | .8326                                          | .8336  | .8346  | .8356  | .8366  | .8376  | .8386  | .8396  | .8406  | .8416  |
| 68.....                          | .8330                                          | .8340  | .8350  | .8360  | .8370  | .8380  | .8390  | .8400  | .8410  | .8420  |
| 69.....                          | .8333                                          | .8343  | .8353  | .8363  | .8373  | .8383  | .8393  | .8403  | .8413  | .8423  |
| 70.....                          | .8337                                          | .8347  | .8357  | .8367  | .8377  | .8387  | .8397  | .8407  | .8417  | .8427  |
| 71.....                          | .8340                                          | .8350  | .8360  | .8370  | .8380  | .8390  | .8400  | .8410  | .8420  | .8430  |
| 72.....                          | .8344                                          | .8354  | .8364  | .8374  | .8384  | .8394  | .8404  | .8414  | .8424  | .8434  |
| 73.....                          | .8348                                          | .8358  | .8368  | .8378  | .8388  | .8398  | .8408  | .8418  | .8428  | .8438  |
| 74.....                          | .8352                                          | .8362  | .8372  | .8382  | .8392  | .8402  | .8412  | .8422  | .8432  | .8442  |
| 75.....                          | .8356                                          | .8366  | .8376  | .8386  | .8396  | .8405  | .8415  | .8425  | .8435  | .8445  |
| 76.....                          | .8360                                          | .8370  | .8380  | .8390  | .8400  | .8409  | .8419  | .8429  | .8439  | .8449  |
| 77.....                          | .8363                                          | .8373  | .8383  | .8393  | .8403  | .8413  | .8423  | .8433  | .8443  | .8453  |
| 78.....                          | .8367                                          | .8377  | .8387  | .8397  | .8407  | .8416  | .8426  | .8436  | .8446  | .8456  |
| 79.....                          | .8371                                          | .8381  | .8391  | .8401  | .8411  | .8420  | .8430  | .8440  | .8450  | .8460  |
| 80.....                          | .8375                                          | .8385  | .8395  | .8405  | .8415  | .8424  | .8434  | .8444  | .8454  | .8464  |
| 81.....                          | .8379                                          | .8389  | .8399  | .8409  | .8419  | .8428  | .8438  | .8448  | .8458  | .8468  |
| 82.....                          | .8382                                          | .8392  | .8402  | .8412  | .8422  | .8432  | .8442  | .8452  | .8462  | .8472  |
| 83.....                          | .8386                                          | .8396  | .8406  | .8416  | .8426  | .8435  | .8445  | .8455  | .8465  | .8475  |
| 84.....                          | .8390                                          | .8400  | .8410  | .8420  | .8430  | .8439  | .8449  | .8459  | .8469  | .8479  |
| 85.....                          | .8394                                          | .8404  | .8414  | .8424  | .8434  | .8443  | .8453  | .8463  | .8473  | .8483  |
| 86.....                          | .8398                                          | .8408  | .8418  | .8428  | .8438  | .8447  | .8457  | .8467  | .8477  | .8487  |
| 87.....                          | .8401                                          | .8411  | .8421  | .8431  | .8441  | .8450  | .8460  | .8470  | .8480  | .8490  |
| 88.....                          | .8404                                          | .8414  | .8424  | .8434  | .8444  | .8453  | .8463  | .8473  | .8483  | .8493  |
| 89.....                          | .8408                                          | .8418  | .8428  | .8438  | .8448  | .8457  | .8467  | .8477  | .8487  | .8497  |
| 90.....                          | .8411                                          | .8421  | .8431  | .8441  | .8451  | .8460  | .8470  | .8480  | .8490  | .8500  |
| 91.....                          | .8415                                          | .8425  | .8435  | .8445  | .8455  | .8464  | .8474  | .8484  | .8494  | .8504  |
| 92.....                          | .8419                                          | .8429  | .8439  | .8449  | .8459  | .8468  | .8478  | .8488  | .8498  | .8508  |
| 93.....                          | .8422                                          | .8432  | .8442  | .8452  | .8462  | .8471  | .8481  | .8491  | .8501  | .8511  |
| 94.....                          | .8425                                          | .8435  | .8445  | .8455  | .8465  | .8474  | .8484  | .8494  | .8504  | .8514  |
| 95.....                          | .8429                                          | .8439  | .8449  | .8459  | .8469  | .8478  | .8488  | .8498  | .8508  | .8518  |
| 96.....                          | .8432                                          | .8442  | .8452  | .8462  | .8472  | .8481  | .8491  | .8501  | .8511  | .8521  |
| 97.....                          | .8436                                          | .8446  | .8456  | .8466  | .8476  | .8485  | .8495  | .8505  | .8515  | .8525  |
| 98.....                          | .8439                                          | .8449  | .8459  | .8469  | .8479  | .8488  | .8498  | .8508  | .8518  | .8528  |
| 99.....                          | .8442                                          | .8452  | .8462  | .8472  | .8482  | .8491  | .8501  | .8511  | .8521  | .8531  |
| 100.....                         | .8446                                          | .8456  | .8466  | .8476  | .8486  | .8495  | .8505  | .8515  | .8525  | .8535  |
| 101.....                         | .8450                                          | .8460  | .8470  | .8480  | .8490  | .8499  | .8509  | .8519  | .8529  | .8539  |
| 102.....                         | .8454                                          | .8464  | .8474  | .8484  | .8494  | .8503  | .8513  | .8523  | .8533  | .8543  |
| 103.....                         | .8458                                          | .8468  | .8478  | .8488  | .8498  | .8507  | .8517  | .8527  | .8537  | .8547  |
| 104.....                         | .8462                                          | .8472  | .8482  | .8492  | .8502  | .8511  | .8521  | .8531  | .8541  | .8551  |
| 105.....                         | .8466                                          | .8476  | .8486  | .8495  | .8505  | .8515  | .8525  | .8535  | .8544  | .8554  |
| 106.....                         | .8469                                          | .8479  | .8489  | .8498  | .8508  | .8518  | .8528  | .8538  | .8547  | .8557  |
| 107.....                         | .8472                                          | .8482  | .8492  | .8502  | .8512  | .8521  | .8531  | .8541  | .8551  | .8561  |
| 108.....                         | .8476                                          | .8486  | .8496  | .8505  | .8515  | .8525  | .8535  | .8545  | .8554  | .8564  |
| 109.....                         | .8480                                          | .8490  | .8500  | .8509  | .8519  | .8529  | .8539  | .8549  | .8558  | .8568  |
| 110.....                         | .8483                                          | .8493  | .8503  | .8512  | .8522  | .8532  | .8542  | .8552  | .8561  | .8571  |
| 111.....                         | .8487                                          | .8497  | .8507  | .8516  | .8526  | .8536  | .8546  | .8556  | .8565  | .8575  |
| 112.....                         | .8491                                          | .8501  | .8511  | .8520  | .8530  | .8540  | .8550  | .8560  | .8569  | .8579  |
| 113.....                         | .8495                                          | .8505  | .8515  | .8524  | .8534  | .8544  | .8554  | .8564  | .8573  | .8583  |
| 114.....                         | .8498                                          | .8508  | .8518  | .8527  | .8537  | .8547  | .8557  | .8567  | .8576  | .8586  |
| 115.....                         | .8502                                          | .8512  | .8522  | .8531  | .8541  | .8551  | .8561  | .8571  | .8580  | .8590  |
| 116.....                         | .8505                                          | .8515  | .8525  | .8534  | .8544  | .8554  | .8564  | .8574  | .8583  | .8593  |
| 117.....                         | .8509                                          | .8519  | .8529  | .8538  | .8548  | .8558  | .8568  | .8578  | .8587  | .8597  |
| 118.....                         | .8513                                          | .8523  | .8532  | .8542  | .8552  | .8561  | .8571  | .8581  | .8591  | .8600  |
| 119.....                         | .8516                                          | .8526  | .8536  | .8545  | .8555  | .8565  | .8575  | .8585  | .8594  | .8604  |
| 120.....                         | .8519                                          | .8529  | .8539  | .8548  | .8558  | .8568  | .8578  | .8588  | .8597  | .8607  |
| 121.....                         | .8523                                          | .8533  | .8543  | .8552  | .8562  | .8572  | .8582  | .8592  | .8601  | .8611  |
| 122.....                         | .8527                                          | .8537  | .8547  | .8556  | .8566  | .8576  | .8586  | .8596  | .8605  | .8615  |
| 123.....                         | .8530                                          | .8540  | .8550  | .8559  | .8569  | .8579  | .8589  | .8599  | .8608  | .8618  |
| 124.....                         | .8533                                          | .8543  | .8553  | .8562  | .8572  | .8582  | .8592  | .8602  | .8611  | .8621  |
| 125.....                         | .8537                                          | .8547  | .8557  | .8566  | .8576  | .8586  | .8596  | .8606  | .8615  | .8625  |
| 126.....                         | .8540                                          | .8550  | .8560  | .8569  | .8579  | .8589  | .8599  | .8609  | .8618  | .8628  |
| 127.....                         | .8544                                          | .8554  | .8564  | .8573  | .8583  | .8593  | .8603  | .8613  | .8622  | .8632  |
| 128.....                         | .8548                                          | .8558  | .8568  | .8577  | .8587  | .8597  | .8607  | .8617  | .8626  | .8636  |
| 129.....                         | .8552                                          | .8562  | .8571  | .8581  | .8591  | .8600  | .8610  | .8620  | .8630  | .8639  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.830                                          | 0.831  | 0.832  | 0.833  | 0.834  | 0.835  | 0.836  | 0.837  | 0.838  | 0.839  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 130.....                    | 0.8555                                         | 0.8565 | 0.8575 | 0.8584 | 0.8594 | 0.8604 | 0.8614 | 0.8624 | 0.8633 | 0.8643 |
| 131.....                    | .8558                                          | .8568  | .8578  | .8587  | .8597  | .8607  | .8617  | .8627  | .8636  | .8646  |
| 132.....                    | .8562                                          | .8572  | .8582  | .8591  | .8601  | .8611  | .8621  | .8631  | .8640  | .8650  |
| 133.....                    | .8565                                          | .8575  | .8585  | .8594  | .8604  | .8614  | .8624  | .8634  | .8643  | .8653  |
| 134.....                    | .8569                                          | .8579  | .8588  | .8598  | .8608  | .8617  | .8627  | .8637  | .8647  | .8656  |
| 135.....                    | .8572                                          | .8582  | .8592  | .8601  | .8611  | .8621  | .8631  | .8641  | .8650  | .8660  |
| 136.....                    | .8575                                          | .8585  | .8595  | .8604  | .8614  | .8624  | .8634  | .8644  | .8653  | .8663  |
| 137.....                    | .8578                                          | .8588  | .8598  | .8607  | .8617  | .8627  | .8637  | .8647  | .8656  | .8666  |
| 138.....                    | .8582                                          | .8592  | .8602  | .8611  | .8621  | .8631  | .8641  | .8651  | .8660  | .8670  |
| 139.....                    | .8586                                          | .8596  | .8606  | .8615  | .8625  | .8635  | .8645  | .8655  | .8664  | .8674  |
| 140.....                    | .8590                                          | .8600  | .8610  | .8619  | .8629  | .8639  | .8649  | .8659  | .8668  | .8678  |
| 141.....                    | .8593                                          | .8603  | .8613  | .8622  | .8632  | .8642  | .8652  | .8662  | .8671  | .8681  |
| 142.....                    | .8597                                          | .8607  | .8616  | .8625  | .8636  | .8645  | .8655  | .8665  | .8675  | .8684  |
| 143.....                    | .8600                                          | .8610  | .8620  | .8629  | .8639  | .8649  | .8659  | .8669  | .8678  | .8688  |
| 144.....                    | .8603                                          | .8613  | .8623  | .8632  | .8642  | .8652  | .8662  | .8672  | .8681  | .8691  |
| 145.....                    | .8607                                          | .8617  | .8626  | .8636  | .8646  | .8655  | .8665  | .8675  | .8684  | .8694  |
| 146.....                    | .8610                                          | .8620  | .8629  | .8639  | .8649  | .8658  | .8668  | .8678  | .8688  | .8697  |
| 147.....                    | .8614                                          | .8624  | .8633  | .8643  | .8653  | .8662  | .8672  | .8682  | .8692  | .8701  |
| 148.....                    | .8617                                          | .8627  | .8636  | .8646  | .8656  | .8665  | .8675  | .8685  | .8695  | .8704  |
| 149.....                    | .8620                                          | .8630  | .8639  | .8649  | .8659  | .8668  | .8678  | .8688  | .8698  | .8707  |
| 150.....                    | .8623                                          | .8633  | .8642  | .8652  | .8662  | .8671  | .8681  | .8691  | .8701  | .8710  |
| 151.....                    | .8627                                          | .8637  | .8646  | .8656  | .8666  | .8675  | .8685  | .8695  | .8705  | .8714  |
| 152.....                    | .8630                                          | .8640  | .8649  | .8659  | .8669  | .8678  | .8688  | .8698  | .8708  | .8717  |
| 153.....                    | .8634                                          | .8644  | .8653  | .8663  | .8673  | .8682  | .8692  | .8702  | .8712  | .8721  |
| 154.....                    | .8638                                          | .8648  | .8657  | .8667  | .8677  | .8686  | .8696  | .8706  | .8716  | .8725  |
| 155.....                    | .8641                                          | .8651  | .8660  | .8670  | .8680  | .8689  | .8699  | .8709  | .8719  | .8728  |
| 156.....                    | .8645                                          | .8655  | .8664  | .8674  | .8684  | .8693  | .8703  | .8713  | .8723  | .8732  |
| 157.....                    | .8648                                          | .8658  | .8667  | .8677  | .8687  | .8696  | .8706  | .8716  | .8726  | .8735  |
| 158.....                    | .8652                                          | .8662  | .8671  | .8681  | .8691  | .8700  | .8710  | .8720  | .8730  | .8739  |
| 159.....                    | .8655                                          | .8665  | .8674  | .8684  | .8694  | .8703  | .8713  | .8723  | .8733  | .8742  |
| 160.....                    | .8659                                          | .8669  | .8678  | .8688  | .8698  | .8707  | .8717  | .8727  | .8737  | .8746  |
| 161.....                    | .8662                                          | .8672  | .8681  | .8691  | .8701  | .8710  | .8720  | .8730  | .8740  | .8749  |
| 162.....                    | .8665                                          | .8675  | .8684  | .8694  | .8704  | .8713  | .8723  | .8733  | .8743  | .8752  |
| 163.....                    | .8669                                          | .8679  | .8688  | .8698  | .8708  | .8717  | .8727  | .8737  | .8747  | .8756  |
| 164.....                    | .8672                                          | .8682  | .8691  | .8701  | .8711  | .8720  | .8730  | .8740  | .8750  | .8759  |
| 165.....                    | .8676                                          | .8686  | .8695  | .8705  | .8715  | .8724  | .8734  | .8744  | .8754  | .8763  |
| 166.....                    | .8679                                          | .8689  | .8698  | .8708  | .8718  | .8727  | .8737  | .8747  | .8757  | .8766  |
| 167.....                    | .8683                                          | .8693  | .8702  | .8712  | .8722  | .8731  | .8741  | .8751  | .8761  | .8770  |
| 168.....                    | .8686                                          | .8696  | .8705  | .8715  | .8725  | .8734  | .8744  | .8754  | .8764  | .8773  |
| 169.....                    | .8690                                          | .8700  | .8709  | .8719  | .8729  | .8738  | .8748  | .8758  | .8768  | .8777  |
| 170.....                    | .8693                                          | .8703  | .8712  | .8722  | .8732  | .8741  | .8751  | .8761  | .8771  | .8780  |
| 171.....                    | .8696                                          | .8706  | .8715  | .8725  | .8735  | .8744  | .8754  | .8764  | .8774  | .8783  |
| 172.....                    | .8699                                          | .8709  | .8718  | .8728  | .8738  | .8747  | .8757  | .8767  | .8777  | .8786  |
| 173.....                    | .8703                                          | .8713  | .8722  | .8732  | .8742  | .8751  | .8761  | .8771  | .8781  | .8790  |
| 174.....                    | .8707                                          | .8717  | .8726  | .8736  | .8746  | .8755  | .8765  | .8775  | .8785  | .8794  |
| 175.....                    | .8710                                          | .8720  | .8729  | .8739  | .8749  | .8758  | .8768  | .8778  | .8788  | .8797  |
| 176.....                    | .8713                                          | .8723  | .8733  | .8742  | .8752  | .8762  | .8772  | .8782  | .8791  | .8801  |
| 177.....                    | .8716                                          | .8726  | .8736  | .8745  | .8755  | .8765  | .8775  | .8785  | .8794  | .8804  |
| 178.....                    | .8720                                          | .8730  | .8739  | .8749  | .8759  | .8768  | .8778  | .8788  | .8798  | .8807  |
| 179.....                    | .8723                                          | .8733  | .8742  | .8752  | .8762  | .8771  | .8781  | .8791  | .8801  | .8810  |
| 180.....                    | .8727                                          | .8737  | .8746  | .8756  | .8766  | .8775  | .8785  | .8795  | .8805  | .8814  |
| 181.....                    | .8730                                          | .8740  | .8749  | .8759  | .8769  | .8778  | .8788  | .8798  | .8808  | .8817  |
| 182.....                    | .8734                                          | .8744  | .8753  | .8763  | .8773  | .8782  | .8792  | .8802  | .8812  | .8821  |
| 183.....                    | .8737                                          | .8747  | .8756  | .8766  | .8776  | .8785  | .8795  | .8805  | .8815  | .8824  |
| 184.....                    | .8741                                          | .8751  | .8760  | .8770  | .8780  | .8789  | .8799  | .8809  | .8819  | .8828  |
| 185.....                    | .8744                                          | .8754  | .8763  | .8773  | .8783  | .8792  | .8802  | .8812  | .8822  | .8831  |
| 186.....                    | .8748                                          | .8758  | .8767  | .8777  | .8787  | .8796  | .8806  | .8816  | .8826  | .8835  |
| 187.....                    | .8751                                          | .8761  | .8770  | .8780  | .8790  | .8799  | .8809  | .8819  | .8829  | .8838  |
| 188.....                    | .8755                                          | .8765  | .8774  | .8784  | .8794  | .8803  | .8813  | .8823  | .8833  | .8842  |
| 189.....                    | .8758                                          | .8768  | .8777  | .8787  | .8797  | .8806  | .8816  | .8826  | .8836  | .8845  |
| 190.....                    | .8762                                          | .8772  | .8781  | .8791  | .8800  | .8810  | .8820  | .8829  | .8839  | .8848  |
| 191.....                    | .8765                                          | .8775  | .8784  | .8794  | .8804  | .8813  | .8823  | .8833  | .8843  | .8852  |
| 192.....                    | .8768                                          | .8778  | .8787  | .8797  | .8807  | .8816  | .8826  | .8836  | .8846  | .8855  |
| 193.....                    | .8771                                          | .8781  | .8790  | .8800  | .8810  | .8819  | .8829  | .8839  | .8849  | .8858  |
| 194.....                    | .8775                                          | .8785  | .8794  | .8804  | .8813  | .8823  | .8833  | .8842  | .8852  | .8861  |
| 195.....                    | .8778                                          | .8788  | .8797  | .8807  | .8816  | .8826  | .8836  | .8845  | .8855  | .8864  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.840                                          | 0.841  | 0.842  | 0.843  | 0.844  | 0.845  | 0.846  | 0.847  | 0.848  | 0.849  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.8168                                         | 0.8178 | 0.8189 | 0.8199 | 0.8209 | 0.8220 | 0.8230 | 0.8240 | 0.8250 | 0.8261 |
| 1.....                      | .8172                                          | .8182  | .8193  | .8203  | .8213  | .8224  | .8234  | .8244  | .8254  | .8265  |
| 2.....                      | .8177                                          | .8187  | .8198  | .8208  | .8218  | .8229  | .8239  | .8249  | .8259  | .8270  |
| 3.....                      | .8181                                          | .8191  | .8202  | .8212  | .8222  | .8233  | .8243  | .8253  | .8263  | .8274  |
| 4.....                      | .8186                                          | .8196  | .8207  | .8217  | .8227  | .8238  | .8248  | .8258  | .8268  | .8279  |
| 5.....                      | .8190                                          | .8200  | .8211  | .8221  | .8231  | .8242  | .8252  | .8262  | .8272  | .8283  |
| 6.....                      | .8194                                          | .8204  | .8215  | .8225  | .8235  | .8246  | .8256  | .8266  | .8276  | .8287  |
| 7.....                      | .8198                                          | .8208  | .8219  | .8229  | .8239  | .8250  | .8260  | .8270  | .8280  | .8291  |
| 8.....                      | .8202                                          | .8212  | .8223  | .8233  | .8243  | .8254  | .8264  | .8274  | .8284  | .8295  |
| 9.....                      | .8206                                          | .8216  | .8226  | .8237  | .8247  | .8257  | .8267  | .8277  | .8288  | .8298  |
| 10.....                     | .8210                                          | .8220  | .8230  | .8241  | .8251  | .8261  | .8271  | .8281  | .8292  | .8302  |
| 11.....                     | .8214                                          | .8224  | .8234  | .8245  | .8255  | .8265  | .8275  | .8285  | .8296  | .8306  |
| 12.....                     | .8218                                          | .8228  | .8238  | .8249  | .8259  | .8269  | .8279  | .8289  | .8300  | .8310  |
| 13.....                     | .8222                                          | .8232  | .8242  | .8253  | .8263  | .8273  | .8283  | .8293  | .8304  | .8314  |
| 14.....                     | .8225                                          | .8235  | .8245  | .8256  | .8266  | .8276  | .8286  | .8296  | .8307  | .8317  |
| 15.....                     | .8229                                          | .8239  | .8249  | .8260  | .8270  | .8280  | .8290  | .8300  | .8311  | .8321  |
| 16.....                     | .8233                                          | .8243  | .8253  | .8264  | .8274  | .8284  | .8294  | .8304  | .8315  | .8325  |
| 17.....                     | .8237                                          | .8247  | .8257  | .8268  | .8278  | .8288  | .8298  | .8308  | .8319  | .8329  |
| 18.....                     | .8240                                          | .8250  | .8260  | .8271  | .8281  | .8291  | .8301  | .8311  | .8322  | .8332  |
| 19.....                     | .8244                                          | .8254  | .8264  | .8275  | .8285  | .8295  | .8305  | .8315  | .8326  | .8336  |
| 20.....                     | .8248                                          | .8258  | .8268  | .8279  | .8289  | .8299  | .8309  | .8319  | .8330  | .8340  |
| 21.....                     | .8252                                          | .8262  | .8272  | .8283  | .8293  | .8303  | .8313  | .8323  | .8334  | .8344  |
| 22.....                     | .8256                                          | .8266  | .8276  | .8287  | .8297  | .8307  | .8317  | .8327  | .8338  | .8348  |
| 23.....                     | .8260                                          | .8270  | .8280  | .8291  | .8301  | .8311  | .8321  | .8331  | .8342  | .8352  |
| 24.....                     | .8264                                          | .8274  | .8284  | .8294  | .8304  | .8315  | .8325  | .8335  | .8345  | .8355  |
| 25.....                     | .8268                                          | .8278  | .8288  | .8298  | .8308  | .8319  | .8329  | .8339  | .8349  | .8359  |
| 26.....                     | .8272                                          | .8282  | .8292  | .8302  | .8312  | .8323  | .8333  | .8343  | .8353  | .8363  |
| 27.....                     | .8276                                          | .8286  | .8296  | .8306  | .8316  | .8327  | .8337  | .8347  | .8357  | .8367  |
| 28.....                     | .8280                                          | .8290  | .8300  | .8310  | .8320  | .8331  | .8341  | .8351  | .8361  | .8371  |
| 29.....                     | .8284                                          | .8294  | .8304  | .8314  | .8324  | .8335  | .8345  | .8355  | .8365  | .8375  |
| 30.....                     | .8288                                          | .8298  | .8308  | .8318  | .8328  | .8339  | .8349  | .8359  | .8369  | .8379  |
| 31.....                     | .8291                                          | .8301  | .8311  | .8321  | .8331  | .8342  | .8352  | .8362  | .8372  | .8382  |
| 32.....                     | .8295                                          | .8305  | .8315  | .8325  | .8335  | .8346  | .8356  | .8366  | .8376  | .8386  |
| 33.....                     | .8299                                          | .8309  | .8319  | .8329  | .8339  | .8350  | .8360  | .8370  | .8380  | .8390  |
| 34.....                     | .8302                                          | .8312  | .8322  | .8332  | .8342  | .8353  | .8363  | .8373  | .8383  | .8393  |
| 35.....                     | .8306                                          | .8316  | .8326  | .8336  | .8346  | .8357  | .8367  | .8377  | .8387  | .8397  |
| 36.....                     | .8310                                          | .8320  | .8330  | .8340  | .8350  | .8361  | .8371  | .8381  | .8391  | .8401  |
| 37.....                     | .8314                                          | .8324  | .8334  | .8344  | .8354  | .8365  | .8375  | .8385  | .8395  | .8405  |
| 38.....                     | .8317                                          | .8327  | .8337  | .8347  | .8357  | .8368  | .8378  | .8388  | .8398  | .8408  |
| 39.....                     | .8321                                          | .8331  | .8341  | .8351  | .8361  | .8372  | .8382  | .8392  | .8402  | .8412  |
| 40.....                     | .8325                                          | .8335  | .8345  | .8355  | .8365  | .8376  | .8386  | .8396  | .8406  | .8416  |
| 41.....                     | .8329                                          | .8339  | .8349  | .8359  | .8369  | .8380  | .8390  | .8400  | .8410  | .8420  |
| 42.....                     | .8333                                          | .8343  | .8353  | .8363  | .8373  | .8384  | .8394  | .8404  | .8414  | .8424  |
| 43.....                     | .8336                                          | .8346  | .8356  | .8366  | .8376  | .8387  | .8397  | .8407  | .8417  | .8427  |
| 44.....                     | .8340                                          | .8350  | .8360  | .8370  | .8380  | .8391  | .8401  | .8411  | .8421  | .8431  |
| 45.....                     | .8343                                          | .8353  | .8363  | .8373  | .8383  | .8394  | .8404  | .8414  | .8424  | .8434  |
| 46.....                     | .8347                                          | .8357  | .8367  | .8377  | .8387  | .8398  | .8408  | .8418  | .8428  | .8438  |
| 47.....                     | .8351                                          | .8361  | .8371  | .8381  | .8391  | .8402  | .8412  | .8422  | .8432  | .8442  |
| 48.....                     | .8355                                          | .8365  | .8375  | .8385  | .8395  | .8405  | .8415  | .8425  | .8435  | .8445  |
| 49.....                     | .8359                                          | .8369  | .8379  | .8389  | .8399  | .8409  | .8419  | .8429  | .8439  | .8449  |
| 50.....                     | .8363                                          | .8373  | .8383  | .8393  | .8403  | .8413  | .8423  | .8433  | .8443  | .8453  |
| 51.....                     | .8366                                          | .8376  | .8386  | .8396  | .8406  | .8416  | .8426  | .8436  | .8446  | .8456  |
| 52.....                     | .8370                                          | .8380  | .8390  | .8400  | .8410  | .8420  | .8430  | .8440  | .8450  | .8460  |
| 53.....                     | .8374                                          | .8384  | .8394  | .8404  | .8414  | .8424  | .8434  | .8444  | .8454  | .8464  |
| 54.....                     | .8377                                          | .8387  | .8397  | .8407  | .8417  | .8428  | .8438  | .8448  | .8458  | .8468  |
| 55.....                     | .8381                                          | .8391  | .8401  | .8411  | .8421  | .8431  | .8441  | .8451  | .8461  | .8471  |
| 56.....                     | .8385                                          | .8395  | .8405  | .8415  | .8425  | .8435  | .8445  | .8455  | .8465  | .8475  |
| 57.....                     | .8389                                          | .8399  | .8409  | .8419  | .8429  | .8439  | .8449  | .8459  | .8469  | .8479  |
| 58.....                     | .8393                                          | .8403  | .8413  | .8423  | .8433  | .8443  | .8453  | .8463  | .8473  | .8483  |
| 59.....                     | .8396                                          | .8406  | .8416  | .8426  | .8436  | .8446  | .8456  | .8466  | .8476  | .8486  |
| 60.....                     | .8400                                          | .8410  | .8420  | .8430  | .8440  | .8450  | .8460  | .8470  | .8480  | .8490  |
| 61.....                     | .8404                                          | .8414  | .8424  | .8434  | .8444  | .8454  | .8464  | .8474  | .8484  | .8494  |
| 62.....                     | .8407                                          | .8417  | .8427  | .8437  | .8447  | .8457  | .8467  | .8477  | .8487  | .8497  |
| 63.....                     | .8410                                          | .8420  | .8430  | .8440  | .8450  | .8460  | .8470  | .8480  | .8490  | .8500  |
| 64.....                     | .8414                                          | .8424  | .8434  | .8444  | .8454  | .8464  | .8474  | .8484  | .8494  | .8504  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in ° F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 0.840                                          | 0.841  | 0.842  | 0.843  | 0.844  | 0.845  | 0.846  | 0.847  | 0.848  | 0.849  |
|                              | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                      | 0.8418                                         | 0.8428 | 0.8438 | 0.8448 | 0.8458 | 0.8468 | 0.8478 | 0.8488 | 0.8498 | 0.8508 |
| 66.....                      | .8422                                          | .8432  | .8442  | .8452  | .8462  | .8472  | .8482  | .8492  | .8502  | .8512  |
| 67.....                      | .8426                                          | .8436  | .8446  | .8456  | .8466  | .8475  | .8485  | .8495  | .8505  | .8515  |
| 68.....                      | .8430                                          | .8440  | .8450  | .8460  | .8470  | .8479  | .8489  | .8499  | .8509  | .8519  |
| 69.....                      | .8433                                          | .8443  | .8453  | .8463  | .8473  | .8483  | .8493  | .8503  | .8513  | .8523  |
| 70.....                      | .8437                                          | .8447  | .8457  | .8467  | .8477  | .8487  | .8497  | .8507  | .8517  | .8527  |
| 71.....                      | .8440                                          | .8450  | .8460  | .8470  | .8480  | .8490  | .8500  | .8510  | .8520  | .8530  |
| 72.....                      | .8444                                          | .8454  | .8464  | .8474  | .8484  | .8494  | .8504  | .8514  | .8524  | .8534  |
| 73.....                      | .8448                                          | .8458  | .8468  | .8478  | .8488  | .8498  | .8508  | .8518  | .8528  | .8538  |
| 74.....                      | .8452                                          | .8462  | .8472  | .8482  | .8492  | .8502  | .8512  | .8522  | .8532  | .8542  |
| 75.....                      | .8455                                          | .8465  | .8475  | .8485  | .8495  | .8505  | .8515  | .8525  | .8535  | .8545  |
| 76.....                      | .8459                                          | .8469  | .8479  | .8489  | .8499  | .8509  | .8519  | .8529  | .8539  | .8549  |
| 77.....                      | .8463                                          | .8473  | .8483  | .8493  | .8503  | .8512  | .8522  | .8532  | .8542  | .8552  |
| 78.....                      | .8466                                          | .8476  | .8486  | .8496  | .8506  | .8516  | .8526  | .8536  | .8546  | .8556  |
| 79.....                      | .8470                                          | .8480  | .8490  | .8500  | .8510  | .8520  | .8530  | .8540  | .8550  | .8560  |
| 80.....                      | .8474                                          | .8484  | .8494  | .8504  | .8514  | .8523  | .8533  | .8543  | .8553  | .8563  |
| 81.....                      | .8478                                          | .8488  | .8498  | .8508  | .8518  | .8527  | .8537  | .8547  | .8557  | .8567  |
| 82.....                      | .8482                                          | .8492  | .8502  | .8512  | .8522  | .8531  | .8541  | .8551  | .8561  | .8571  |
| 83.....                      | .8485                                          | .8495  | .8505  | .8515  | .8525  | .8534  | .8544  | .8554  | .8564  | .8574  |
| 84.....                      | .8489                                          | .8499  | .8509  | .8519  | .8529  | .8538  | .8548  | .8558  | .8568  | .8578  |
| 85.....                      | .8493                                          | .8503  | .8513  | .8523  | .8533  | .8542  | .8552  | .8562  | .8572  | .8582  |
| 86.....                      | .8497                                          | .8507  | .8517  | .8527  | .8537  | .8546  | .8556  | .8566  | .8576  | .8586  |
| 87.....                      | .8500                                          | .8510  | .8520  | .8530  | .8540  | .8549  | .8559  | .8569  | .8579  | .8589  |
| 88.....                      | .8503                                          | .8513  | .8523  | .8533  | .8543  | .8553  | .8563  | .8573  | .8583  | .8593  |
| 89.....                      | .8507                                          | .8517  | .8527  | .8537  | .8547  | .8556  | .8566  | .8576  | .8586  | .8596  |
| 90.....                      | .8510                                          | .8520  | .8530  | .8540  | .8550  | .8560  | .8570  | .8580  | .8590  | .8600  |
| 91.....                      | .8514                                          | .8524  | .8534  | .8544  | .8554  | .8564  | .8574  | .8584  | .8594  | .8604  |
| 92.....                      | .8518                                          | .8528  | .8538  | .8548  | .8558  | .8567  | .8577  | .8587  | .8597  | .8607  |
| 93.....                      | .8521                                          | .8531  | .8541  | .8551  | .8561  | .8570  | .8580  | .8590  | .8600  | .8610  |
| 94.....                      | .8524                                          | .8534  | .8544  | .8554  | .8564  | .8574  | .8584  | .8594  | .8604  | .8614  |
| 95.....                      | .8528                                          | .8538  | .8548  | .8558  | .8568  | .8577  | .8587  | .8597  | .8607  | .8617  |
| 96.....                      | .8531                                          | .8541  | .8551  | .8561  | .8571  | .8580  | .8590  | .8600  | .8610  | .8620  |
| 97.....                      | .8535                                          | .8545  | .8555  | .8565  | .8575  | .8584  | .8594  | .8604  | .8614  | .8624  |
| 98.....                      | .8533                                          | .8548  | .8558  | .8568  | .8578  | .8587  | .8597  | .8607  | .8617  | .8627  |
| 99.....                      | .8541                                          | .8551  | .8561  | .8571  | .8581  | .8590  | .8600  | .8610  | .8620  | .8630  |
| 100.....                     | .8545                                          | .8555  | .8565  | .8575  | .8585  | .8594  | .8604  | .8614  | .8624  | .8634  |
| 101.....                     | .8549                                          | .8559  | .8569  | .8579  | .8589  | .8598  | .8608  | .8618  | .8628  | .8638  |
| 102.....                     | .8553                                          | .8563  | .8573  | .8583  | .8593  | .8602  | .8612  | .8622  | .8632  | .8642  |
| 103.....                     | .8557                                          | .8567  | .8577  | .8587  | .8597  | .8606  | .8616  | .8626  | .8636  | .8646  |
| 104.....                     | .8561                                          | .8571  | .8581  | .8590  | .8600  | .8610  | .8620  | .8630  | .8639  | .8649  |
| 105.....                     | .8564                                          | .8574  | .8584  | .8594  | .8604  | .8613  | .8623  | .8633  | .8643  | .8653  |
| 106.....                     | .8567                                          | .8577  | .8587  | .8597  | .8607  | .8616  | .8626  | .8636  | .8646  | .8656  |
| 107.....                     | .8571                                          | .8581  | .8591  | .8601  | .8611  | .8620  | .8630  | .8640  | .8650  | .8660  |
| 108.....                     | .8574                                          | .8584  | .8594  | .8604  | .8614  | .8623  | .8633  | .8643  | .8653  | .8663  |
| 109.....                     | .8578                                          | .8588  | .8598  | .8608  | .8618  | .8627  | .8637  | .8647  | .8657  | .8667  |
| 110.....                     | .8581                                          | .8591  | .8601  | .8611  | .8621  | .8630  | .8640  | .8650  | .8660  | .8670  |
| 111.....                     | .8585                                          | .8595  | .8605  | .8615  | .8625  | .8634  | .8644  | .8654  | .8664  | .8674  |
| 112.....                     | .8589                                          | .8599  | .8609  | .8618  | .8628  | .8638  | .8648  | .8658  | .8667  | .8677  |
| 113.....                     | .8593                                          | .8603  | .8613  | .8622  | .8632  | .8642  | .8652  | .8662  | .8671  | .8681  |
| 114.....                     | .8596                                          | .8606  | .8616  | .8625  | .8635  | .8645  | .8655  | .8665  | .8674  | .8684  |
| 115.....                     | .8600                                          | .8610  | .8620  | .8629  | .8639  | .8649  | .8659  | .8669  | .8678  | .8688  |
| 116.....                     | .8603                                          | .8613  | .8623  | .8632  | .8642  | .8652  | .8662  | .8672  | .8681  | .8691  |
| 117.....                     | .8607                                          | .8617  | .8627  | .8636  | .8646  | .8656  | .8666  | .8676  | .8685  | .8695  |
| 118.....                     | .8610                                          | .8620  | .8630  | .8639  | .8649  | .8659  | .8669  | .8679  | .8688  | .8698  |
| 119.....                     | .8614                                          | .8624  | .8634  | .8643  | .8653  | .8663  | .8673  | .8683  | .8692  | .8702  |
| 120.....                     | .8617                                          | .8627  | .8637  | .8646  | .8656  | .8666  | .8676  | .8686  | .8695  | .8705  |
| 121.....                     | .8621                                          | .8631  | .8641  | .8650  | .8660  | .8670  | .8680  | .8690  | .8699  | .8709  |
| 122.....                     | .8625                                          | .8635  | .8645  | .8654  | .8664  | .8674  | .8684  | .8694  | .8703  | .8713  |
| 123.....                     | .8628                                          | .8638  | .8648  | .8657  | .8667  | .8677  | .8687  | .8697  | .8706  | .8716  |
| 124.....                     | .8631                                          | .8641  | .8651  | .8660  | .8670  | .8680  | .8690  | .8700  | .8709  | .8719  |
| 125.....                     | .8635                                          | .8645  | .8655  | .8664  | .8674  | .8684  | .8694  | .8704  | .8713  | .8723  |
| 126.....                     | .8638                                          | .8648  | .8658  | .8667  | .8677  | .8687  | .8697  | .8707  | .8716  | .8726  |
| 127.....                     | .8642                                          | .8652  | .8662  | .8671  | .8681  | .8691  | .8701  | .8711  | .8720  | .8730  |
| 128.....                     | .8646                                          | .8656  | .8666  | .8675  | .8685  | .8695  | .8705  | .8715  | .8724  | .8734  |
| 129.....                     | .8649                                          | .8659  | .8669  | .8678  | .8688  | .8698  | .8708  | .8718  | .8727  | .8737  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in ° F. | Observed specific gravity.                     |        |        |        |        |        |        |       |        |        |
|------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|-------|--------|--------|
|                              | 0.840                                          | 0.841  | 0.842  | 0.843  | 0.844  | 0.845  | 0.846  | 0.847 | 0.848  | 0.849  |
|                              | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |       |        |        |
| 130.....                     | 0.8653                                         | 0.8663 | 0.8672 | 0.8682 | 0.8692 | 0.8701 | 0.8711 | .8721 | 0.8731 | 0.8740 |
| 131.....                     | .8656                                          | .8666  | .8676  | .8685  | .8695  | .8705  | .8715  | .8725 | .8734  | .8744  |
| 132.....                     | .8660                                          | .8670  | .8679  | .8689  | .8699  | .8708  | .8718  | .8728 | .8738  | .8747  |
| 133.....                     | .8663                                          | .8673  | .8682  | .8692  | .8702  | .8711  | .8721  | .8731 | .8741  | .8750  |
| 134.....                     | .8666                                          | .8676  | .8685  | .8695  | .8705  | .8714  | .8724  | .8734 | .8744  | .8753  |
| 135.....                     | .8670                                          | .8680  | .8689  | .8699  | .8709  | .8718  | .8728  | .8738 | .8748  | .8757  |
| 136.....                     | .8673                                          | .8683  | .8693  | .8702  | .8712  | .8722  | .8732  | .8742 | .8751  | .8761  |
| 137.....                     | .8676                                          | .8686  | .8696  | .8705  | .8715  | .8725  | .8735  | .8745 | .8754  | .8764  |
| 138.....                     | .8680                                          | .8690  | .8700  | .8709  | .8719  | .8729  | .8739  | .8749 | .8758  | .8768  |
| 139.....                     | .8684                                          | .8694  | .8704  | .8713  | .8723  | .8733  | .8743  | .8753 | .8762  | .8772  |
| 140.....                     | .8688                                          | .8698  | .8708  | .8717  | .8727  | .8737  | .8747  | .8757 | .8766  | .8776  |
| 141.....                     | .8691                                          | .8701  | .8711  | .8720  | .8730  | .8740  | .8750  | .8760 | .8769  | .8779  |
| 142.....                     | .8694                                          | .8704  | .8714  | .8723  | .8733  | .8743  | .8753  | .8763 | .8772  | .8782  |
| 143.....                     | .8698                                          | .8708  | .8718  | .8727  | .8737  | .8747  | .8757  | .8767 | .8776  | .8786  |
| 144.....                     | .8701                                          | .8711  | .8721  | .8730  | .8740  | .8750  | .8760  | .8770 | .8779  | .8789  |
| 145.....                     | .8704                                          | .8714  | .8724  | .8733  | .8743  | .8753  | .8763  | .8773 | .8782  | .8792  |
| 146.....                     | .8707                                          | .8717  | .8727  | .8736  | .8746  | .8756  | .8766  | .8776 | .8785  | .8795  |
| 147.....                     | .8711                                          | .8721  | .8730  | .8740  | .8750  | .8759  | .8769  | .8779 | .8788  | .8798  |
| 148.....                     | .8714                                          | .8724  | .8733  | .8743  | .8753  | .8762  | .8772  | .8782 | .8792  | .8801  |
| 149.....                     | .8717                                          | .8727  | .8737  | .8746  | .8756  | .8766  | .8776  | .8786 | .8795  | .8805  |
| 150.....                     | .8720                                          | .8730  | .8740  | .8749  | .8759  | .8769  | .8779  | .8789 | .8798  | .8808  |
| 151.....                     | .8724                                          | .8734  | .8744  | .8753  | .8763  | .8773  | .8783  | .8793 | .8802  | .8812  |
| 152.....                     | .8727                                          | .8737  | .8747  | .8756  | .8766  | .8776  | .8786  | .8796 | .8805  | .8815  |
| 153.....                     | .8731                                          | .8741  | .8750  | .8760  | .8770  | .8779  | .8789  | .8799 | .8808  | .8818  |
| 154.....                     | .8735                                          | .8745  | .8754  | .8764  | .8774  | .8783  | .8793  | .8803 | .8813  | .8822  |
| 155.....                     | .8738                                          | .8748  | .8757  | .8767  | .8777  | .8786  | .8796  | .8806 | .8816  | .8825  |
| 156.....                     | .8742                                          | .8752  | .8761  | .8771  | .8781  | .8790  | .8800  | .8810 | .8820  | .8829  |
| 157.....                     | .8745                                          | .8755  | .8765  | .8774  | .8784  | .8794  | .8804  | .8814 | .8823  | .8833  |
| 158.....                     | .8749                                          | .8759  | .8768  | .8778  | .8788  | .8797  | .8807  | .8817 | .8827  | .8836  |
| 159.....                     | .8752                                          | .8762  | .8772  | .8781  | .8791  | .8801  | .8811  | .8821 | .8830  | .8840  |
| 160.....                     | .8756                                          | .8766  | .8775  | .8785  | .8795  | .8804  | .8814  | .8824 | .8834  | .8843  |
| 161.....                     | .8759                                          | .8769  | .8778  | .8788  | .8798  | .8807  | .8817  | .8827 | .8837  | .8846  |
| 162.....                     | .8762                                          | .8772  | .8781  | .8791  | .8801  | .8810  | .8820  | .8830 | .8840  | .8849  |
| 163.....                     | .8766                                          | .8776  | .8785  | .8795  | .8805  | .8814  | .8824  | .8834 | .8844  | .8853  |
| 164.....                     | .8769                                          | .8779  | .8789  | .8798  | .8808  | .8818  | .8828  | .8838 | .8847  | .8857  |
| 165.....                     | .8773                                          | .8783  | .8793  | .8802  | .8812  | .8822  | .8832  | .8842 | .8851  | .8861  |
| 166.....                     | .8776                                          | .8786  | .8796  | .8805  | .8815  | .8825  | .8835  | .8845 | .8854  | .8864  |
| 167.....                     | .8780                                          | .8790  | .8800  | .8809  | .8819  | .8829  | .8839  | .8849 | .8858  | .8868  |
| 168.....                     | .8783                                          | .8793  | .8803  | .8812  | .8822  | .8832  | .8842  | .8852 | .8861  | .8871  |
| 169.....                     | .8787                                          | .8797  | .8806  | .8816  | .8826  | .8835  | .8845  | .8855 | .8865  | .8874  |
| 170.....                     | .8790                                          | .8800  | .8809  | .8819  | .8829  | .8838  | .8848  | .8858 | .8868  | .8877  |
| 171.....                     | .8793                                          | .8803  | .8812  | .8822  | .8832  | .8841  | .8851  | .8861 | .8871  | .8880  |
| 172.....                     | .8796                                          | .8806  | .8815  | .8825  | .8835  | .8844  | .8854  | .8864 | .8874  | .8883  |
| 173.....                     | .8800                                          | .8810  | .8819  | .8829  | .8839  | .8848  | .8858  | .8868 | .8878  | .8887  |
| 174.....                     | .8804                                          | .8814  | .8823  | .8833  | .8843  | .8852  | .8862  | .8872 | .8882  | .8891  |
| 175.....                     | .8807                                          | .8817  | .8827  | .8836  | .8846  | .8856  | .8866  | .8876 | .8885  | .8895  |
| 176.....                     | .8811                                          | .8821  | .8830  | .8840  | .8850  | .8859  | .8869  | .8879 | .8889  | .8898  |
| 177.....                     | .8814                                          | .8824  | .8834  | .8843  | .8853  | .8863  | .8873  | .8883 | .8892  | .8902  |
| 178.....                     | .8817                                          | .8827  | .8837  | .8846  | .8856  | .8866  | .8876  | .8886 | .8895  | .8905  |
| 179.....                     | .8820                                          | .8830  | .8840  | .8849  | .8859  | .8869  | .8879  | .8889 | .8898  | .8908  |
| 180.....                     | .8824                                          | .8834  | .8843  | .8853  | .8863  | .8872  | .8882  | .8892 | .8902  | .8911  |
| 181.....                     | .8827                                          | .8837  | .8847  | .8856  | .8866  | .8876  | .8886  | .8896 | .8905  | .8915  |
| 182.....                     | .8831                                          | .8841  | .8850  | .8860  | .8870  | .8879  | .8889  | .8899 | .8909  | .8918  |
| 183.....                     | .8834                                          | .8844  | .8853  | .8863  | .8873  | .8882  | .8892  | .8902 | .8912  | .8921  |
| 184.....                     | .8838                                          | .8848  | .8857  | .8867  | .8877  | .8886  | .8896  | .8906 | .8916  | .8925  |
| 185.....                     | .8841                                          | .8851  | .8860  | .8870  | .8880  | .8889  | .8899  | .8909 | .8919  | .8928  |
| 186.....                     | .8845                                          | .8855  | .8864  | .8874  | .8884  | .8893  | .8903  | .8913 | .8923  | .8932  |
| 187.....                     | .8848                                          | .8858  | .8867  | .8877  | .8887  | .8896  | .8906  | .8916 | .8926  | .8935  |
| 188.....                     | .8852                                          | .8862  | .8871  | .8881  | .8891  | .8900  | .8910  | .8920 | .8930  | .8939  |
| 189.....                     | .8855                                          | .8865  | .8874  | .8884  | .8894  | .8903  | .8913  | .8923 | .8933  | .8942  |
| 190.....                     | .8858                                          | .8868  | .8877  | .8887  | .8897  | .8906  | .8916  | .8926 | .8936  | .8945  |
| 191.....                     | .8862                                          | .8872  | .8881  | .8891  | .8901  | .8910  | .8920  | .8930 | .8940  | .8949  |
| 192.....                     | .8865                                          | .8875  | .8884  | .8894  | .8904  | .8913  | .8923  | .8933 | .8943  | .8952  |
| 193.....                     | .8868                                          | .8878  | .8887  | .8897  | .8907  | .8916  | .8926  | .8936 | .8946  | .8955  |
| 194.....                     | .8871                                          | .8881  | .8890  | .8900  | .8910  | .8919  | .8929  | .8939 | .8949  | .8958  |
| 195.....                     | .8874                                          | .8884  | .8893  | .8903  | .8913  | .8922  | .8932  | .8942 | .8952  | .8961  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.850                                          | 0.851  | 0.852  | 0.853  | 0.854  | 0.855  | 0.856  | 0.857  | 0.858  | 0.859  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.8271                                         | 0.8281 | 0.8292 | 0.8302 | 0.8313 | 0.8323 | 0.8333 | 0.8343 | 0.8354 | 0.8364 |
| 1.....                      | .8275                                          | .8285  | .8296  | .8306  | .8316  | .8327  | .8337  | .8347  | .8357  | .8368  |
| 2.....                      | .8280                                          | .8290  | .8301  | .8311  | .8321  | .8332  | .8342  | .8352  | .8362  | .8373  |
| 3.....                      | .8284                                          | .8294  | .8305  | .8315  | .8325  | .8336  | .8346  | .8356  | .8366  | .8377  |
| 4.....                      | .8289                                          | .8299  | .8309  | .8320  | .8330  | .8340  | .8350  | .8360  | .8371  | .8381  |
| 5.....                      | .8293                                          | .8303  | .8313  | .8324  | .8334  | .8344  | .8354  | .8364  | .8375  | .8385  |
| 6.....                      | .8297                                          | .8307  | .8317  | .8328  | .8338  | .8348  | .8358  | .8368  | .8379  | .8389  |
| 7.....                      | .8301                                          | .8311  | .8321  | .8332  | .8342  | .8352  | .8362  | .8372  | .8383  | .8393  |
| 8.....                      | .8305                                          | .8315  | .8325  | .8336  | .8346  | .8356  | .8366  | .8376  | .8387  | .8397  |
| 9.....                      | .8308                                          | .8318  | .8328  | .8339  | .8349  | .8359  | .8369  | .8379  | .8390  | .8400  |
| 10.....                     | .8312                                          | .8322  | .8332  | .8343  | .8353  | .8363  | .8373  | .8383  | .8394  | .8404  |
| 11.....                     | .8316                                          | .8326  | .8336  | .8347  | .8357  | .8367  | .8377  | .8387  | .8398  | .8408  |
| 12.....                     | .8320                                          | .8330  | .8340  | .8351  | .8361  | .8371  | .8381  | .8391  | .8402  | .8412  |
| 13.....                     | .8324                                          | .8334  | .8344  | .8355  | .8365  | .8375  | .8385  | .8395  | .8406  | .8416  |
| 14.....                     | .8327                                          | .8337  | .8347  | .8358  | .8368  | .8378  | .8388  | .8398  | .8409  | .8419  |
| 15.....                     | .8331                                          | .8341  | .8351  | .8362  | .8372  | .8382  | .8392  | .8402  | .8413  | .8423  |
| 16.....                     | .8335                                          | .8345  | .8355  | .8366  | .8376  | .8386  | .8396  | .8406  | .8417  | .8427  |
| 17.....                     | .8339                                          | .8349  | .8359  | .8370  | .8380  | .8390  | .8400  | .8410  | .8421  | .8431  |
| 18.....                     | .8342                                          | .8352  | .8362  | .8373  | .8383  | .8393  | .8403  | .8413  | .8424  | .8434  |
| 19.....                     | .8346                                          | .8356  | .8366  | .8377  | .8387  | .8397  | .8407  | .8417  | .8428  | .8438  |
| 20.....                     | .8350                                          | .8360  | .8370  | .8381  | .8391  | .8401  | .8411  | .8421  | .8432  | .8442  |
| 21.....                     | .8354                                          | .8364  | .8374  | .8385  | .8395  | .8405  | .8415  | .8425  | .8436  | .8446  |
| 22.....                     | .8358                                          | .8368  | .8378  | .8389  | .8399  | .8409  | .8419  | .8429  | .8440  | .8450  |
| 23.....                     | .8362                                          | .8372  | .8382  | .8392  | .8402  | .8413  | .8423  | .8433  | .8443  | .8453  |
| 24.....                     | .8365                                          | .8375  | .8385  | .8396  | .8406  | .8416  | .8426  | .8436  | .8447  | .8457  |
| 25.....                     | .8369                                          | .8379  | .8389  | .8400  | .8410  | .8420  | .8430  | .8440  | .8451  | .8461  |
| 26.....                     | .8373                                          | .8383  | .8393  | .8404  | .8414  | .8424  | .8434  | .8444  | .8455  | .8465  |
| 27.....                     | .8377                                          | .8387  | .8397  | .8408  | .8418  | .8428  | .8438  | .8448  | .8459  | .8469  |
| 28.....                     | .8381                                          | .8391  | .8401  | .8411  | .8421  | .8432  | .8442  | .8452  | .8462  | .8472  |
| 29.....                     | .8385                                          | .8395  | .8405  | .8415  | .8425  | .8436  | .8446  | .8456  | .8466  | .8476  |
| 30.....                     | .8389                                          | .8399  | .8409  | .8419  | .8429  | .8440  | .8450  | .8460  | .8470  | .8480  |
| 31.....                     | .8392                                          | .8402  | .8412  | .8423  | .8433  | .8443  | .8453  | .8463  | .8474  | .8484  |
| 32.....                     | .8396                                          | .8406  | .8416  | .8426  | .8436  | .8447  | .8457  | .8467  | .8477  | .8487  |
| 33.....                     | .8400                                          | .8410  | .8420  | .8430  | .8440  | .8451  | .8461  | .8471  | .8481  | .8491  |
| 34.....                     | .8403                                          | .8413  | .8423  | .8433  | .8443  | .8454  | .8464  | .8474  | .8484  | .8494  |
| 35.....                     | .8407                                          | .8417  | .8427  | .8437  | .8447  | .8458  | .8468  | .8478  | .8488  | .8498  |
| 36.....                     | .8411                                          | .8421  | .8431  | .8441  | .8451  | .8462  | .8472  | .8482  | .8492  | .8502  |
| 37.....                     | .8415                                          | .8425  | .8435  | .8445  | .8455  | .8466  | .8476  | .8486  | .8496  | .8506  |
| 38.....                     | .8418                                          | .8428  | .8438  | .8448  | .8458  | .8469  | .8479  | .8489  | .8499  | .8509  |
| 39.....                     | .8422                                          | .8432  | .8442  | .8452  | .8462  | .8473  | .8483  | .8493  | .8503  | .8513  |
| 40.....                     | .8426                                          | .8436  | .8446  | .8456  | .8466  | .8477  | .8487  | .8497  | .8507  | .8517  |
| 41.....                     | .8430                                          | .8440  | .8450  | .8460  | .8470  | .8480  | .8490  | .8500  | .8510  | .8520  |
| 42.....                     | .8434                                          | .8444  | .8454  | .8464  | .8474  | .8484  | .8494  | .8504  | .8514  | .8524  |
| 43.....                     | .8437                                          | .8447  | .8457  | .8467  | .8477  | .8488  | .8498  | .8508  | .8518  | .8528  |
| 44.....                     | .8441                                          | .8451  | .8461  | .8471  | .8481  | .8491  | .8501  | .8511  | .8521  | .8531  |
| 45.....                     | .8444                                          | .8454  | .8464  | .8474  | .8484  | .8495  | .8505  | .8515  | .8525  | .8535  |
| 46.....                     | .8448                                          | .8458  | .8468  | .8478  | .8488  | .8499  | .8509  | .8519  | .8529  | .8539  |
| 47.....                     | .8452                                          | .8462  | .8472  | .8482  | .8492  | .8502  | .8512  | .8522  | .8532  | .8542  |
| 48.....                     | .8455                                          | .8465  | .8475  | .8485  | .8495  | .8506  | .8516  | .8526  | .8536  | .8546  |
| 49.....                     | .8459                                          | .8469  | .8479  | .8489  | .8499  | .8509  | .8519  | .8529  | .8539  | .8549  |
| 50.....                     | .8463                                          | .8473  | .8483  | .8493  | .8503  | .8513  | .8523  | .8533  | .8543  | .8553  |
| 51.....                     | .8466                                          | .8476  | .8486  | .8496  | .8506  | .8516  | .8526  | .8536  | .8546  | .8556  |
| 52.....                     | .8470                                          | .8480  | .8490  | .8500  | .8510  | .8520  | .8530  | .8540  | .8550  | .8560  |
| 53.....                     | .8474                                          | .8484  | .8494  | .8504  | .8514  | .8524  | .8534  | .8544  | .8554  | .8564  |
| 54.....                     | .8478                                          | .8488  | .8498  | .8508  | .8518  | .8528  | .8538  | .8548  | .8558  | .8568  |
| 55.....                     | .8481                                          | .8491  | .8501  | .8511  | .8521  | .8531  | .8541  | .8551  | .8561  | .8571  |
| 56.....                     | .8485                                          | .8495  | .8505  | .8515  | .8525  | .8535  | .8545  | .8555  | .8565  | .8575  |
| 57.....                     | .8489                                          | .8499  | .8509  | .8519  | .8529  | .8539  | .8549  | .8559  | .8569  | .8579  |
| 58.....                     | .8493                                          | .8503  | .8513  | .8523  | .8533  | .8543  | .8553  | .8563  | .8573  | .8583  |
| 59.....                     | .8496                                          | .8506  | .8516  | .8526  | .8536  | .8546  | .8556  | .8566  | .8576  | .8586  |
| 60.....                     | .8500                                          | .8510  | .8520  | .8530  | .8540  | .8550  | .8560  | .8570  | .8580  | .8590  |
| 61.....                     | .8504                                          | .8514  | .8524  | .8534  | .8544  | .8554  | .8564  | .8574  | .8584  | .8594  |
| 62.....                     | .8507                                          | .8517  | .8527  | .8537  | .8547  | .8557  | .8567  | .8577  | .8587  | .8597  |
| 63.....                     | .8510                                          | .8520  | .8530  | .8540  | .8550  | .8560  | .8570  | .8580  | .8590  | .8600  |
| 64.....                     | .8514                                          | .8524  | .8534  | .8544  | .8554  | .8564  | .8574  | .8584  | .8594  | .8604  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.850                                          | 0.851  | 0.852  | 0.853  | 0.854  | 0.855  | 0.856  | 0.857  | 0.858  | 0.859  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                     | 0.8518                                         | 0.8528 | 0.8538 | 0.8548 | 0.8558 | 0.8568 | 0.8578 | 0.8588 | 0.8598 | 0.8608 |
| 66.....                     | .8522                                          | .8532  | .8542  | .8552  | .8562  | .8572  | .8582  | .8592  | .8602  | .8612  |
| 67.....                     | .8525                                          | .8535  | .8545  | .8555  | .8565  | .8575  | .8585  | .8595  | .8605  | .8615  |
| 68.....                     | .8529                                          | .8539  | .8549  | .8559  | .8569  | .8579  | .8589  | .8599  | .8609  | .8619  |
| 69.....                     | .8533                                          | .8543  | .8553  | .8563  | .8573  | .8583  | .8593  | .8603  | .8613  | .8623  |
| 70.....                     | .8537                                          | .8547  | .8557  | .8567  | .8577  | .8587  | .8597  | .8607  | .8617  | .8627  |
| 71.....                     | .8540                                          | .8550  | .8560  | .8570  | .8580  | .8590  | .8600  | .8610  | .8620  | .8630  |
| 72.....                     | .8544                                          | .8554  | .8564  | .8574  | .8584  | .8594  | .8604  | .8614  | .8624  | .8634  |
| 73.....                     | .8548                                          | .8558  | .8568  | .8578  | .8588  | .8598  | .8608  | .8618  | .8628  | .8638  |
| 74.....                     | .8552                                          | .8562  | .8572  | .8582  | .8592  | .8602  | .8612  | .8622  | .8632  | .8642  |
| 75.....                     | .8555                                          | .8565  | .8575  | .8585  | .8595  | .8605  | .8615  | .8625  | .8635  | .8645  |
| 76.....                     | .8559                                          | .8569  | .8579  | .8589  | .8599  | .8609  | .8619  | .8629  | .8639  | .8649  |
| 77.....                     | .8562                                          | .8572  | .8582  | .8592  | .8602  | .8612  | .8622  | .8632  | .8642  | .8652  |
| 78.....                     | .8566                                          | .8576  | .8586  | .8596  | .8606  | .8616  | .8626  | .8636  | .8646  | .8656  |
| 79.....                     | .8570                                          | .8580  | .8590  | .8600  | .8610  | .8620  | .8630  | .8640  | .8650  | .8660  |
| 80.....                     | .8573                                          | .8583  | .8593  | .8603  | .8613  | .8623  | .8633  | .8643  | .8653  | .8663  |
| 81.....                     | .8577                                          | .8587  | .8597  | .8607  | .8617  | .8627  | .8637  | .8647  | .8657  | .8667  |
| 82.....                     | .8581                                          | .8591  | .8601  | .8611  | .8621  | .8630  | .8640  | .8650  | .8660  | .8670  |
| 83.....                     | .8584                                          | .8594  | .8604  | .8614  | .8624  | .8634  | .8644  | .8654  | .8664  | .8674  |
| 84.....                     | .8588                                          | .8598  | .8608  | .8618  | .8628  | .8638  | .8648  | .8658  | .8668  | .8678  |
| 85.....                     | .8592                                          | .8602  | .8612  | .8622  | .8632  | .8641  | .8651  | .8661  | .8671  | .8681  |
| 86.....                     | .8596                                          | .8606  | .8616  | .8626  | .8636  | .8645  | .8655  | .8665  | .8675  | .8685  |
| 87.....                     | .8599                                          | .8609  | .8619  | .8629  | .8639  | .8648  | .8658  | .8668  | .8678  | .8688  |
| 88.....                     | .8603                                          | .8613  | .8623  | .8633  | .8643  | .8652  | .8662  | .8672  | .8682  | .8692  |
| 89.....                     | .8606                                          | .8616  | .8626  | .8636  | .8646  | .8655  | .8665  | .8675  | .8685  | .8695  |
| 90.....                     | .8610                                          | .8620  | .8630  | .8640  | .8650  | .8659  | .8669  | .8679  | .8689  | .8699  |
| 91.....                     | .8614                                          | .8624  | .8634  | .8644  | .8654  | .8663  | .8673  | .8683  | .8693  | .8703  |
| 92.....                     | .8617                                          | .8627  | .8637  | .8647  | .8657  | .8666  | .8676  | .8686  | .8696  | .8706  |
| 93.....                     | .8620                                          | .8630  | .8640  | .8650  | .8660  | .8669  | .8679  | .8689  | .8699  | .8709  |
| 94.....                     | .8624                                          | .8634  | .8644  | .8654  | .8664  | .8673  | .8683  | .8693  | .8703  | .8713  |
| 95.....                     | .8627                                          | .8637  | .8647  | .8657  | .8667  | .8676  | .8686  | .8696  | .8706  | .8716  |
| 96.....                     | .8630                                          | .8640  | .8650  | .8660  | .8670  | .8680  | .8690  | .8700  | .8710  | .8720  |
| 97.....                     | .8634                                          | .8644  | .8654  | .8664  | .8674  | .8683  | .8693  | .8703  | .8713  | .8723  |
| 98.....                     | .8637                                          | .8647  | .8657  | .8667  | .8677  | .8687  | .8697  | .8707  | .8717  | .8727  |
| 99.....                     | .8640                                          | .8650  | .8660  | .8670  | .8680  | .8690  | .8700  | .8710  | .8720  | .8730  |
| 100.....                    | .8644                                          | .8654  | .8664  | .8674  | .8684  | .8693  | .8703  | .8713  | .8723  | .8733  |
| 101.....                    | .8648                                          | .8658  | .8668  | .8678  | .8688  | .8697  | .8707  | .8717  | .8727  | .8737  |
| 102.....                    | .8652                                          | .8662  | .8672  | .8682  | .8692  | .8701  | .8711  | .8721  | .8731  | .8741  |
| 103.....                    | .8656                                          | .8666  | .8676  | .8686  | .8696  | .8705  | .8715  | .8725  | .8735  | .8745  |
| 104.....                    | .8659                                          | .8669  | .8679  | .8689  | .8699  | .8708  | .8718  | .8728  | .8738  | .8748  |
| 105.....                    | .8663                                          | .8673  | .8683  | .8693  | .8703  | .8712  | .8722  | .8732  | .8742  | .8752  |
| 106.....                    | .8665                                          | .8675  | .8685  | .8695  | .8705  | .8715  | .8725  | .8735  | .8745  | .8755  |
| 107.....                    | .8670                                          | .8680  | .8690  | .8700  | .8710  | .8719  | .8729  | .8739  | .8749  | .8759  |
| 108.....                    | .8673                                          | .8683  | .8693  | .8703  | .8713  | .8722  | .8732  | .8742  | .8752  | .8762  |
| 109.....                    | .8677                                          | .8687  | .8697  | .8707  | .8717  | .8726  | .8736  | .8746  | .8756  | .8766  |
| 110.....                    | .8680                                          | .8690  | .8700  | .8710  | .8720  | .8729  | .8739  | .8749  | .8759  | .8769  |
| 111.....                    | .8684                                          | .8694  | .8704  | .8714  | .8724  | .8733  | .8743  | .8753  | .8763  | .8773  |
| 112.....                    | .8687                                          | .8697  | .8707  | .8717  | .8727  | .8736  | .8746  | .8756  | .8766  | .8776  |
| 113.....                    | .8691                                          | .8701  | .8711  | .8721  | .8731  | .8740  | .8750  | .8760  | .8770  | .8780  |
| 114.....                    | .8694                                          | .8704  | .8714  | .8724  | .8734  | .8743  | .8753  | .8763  | .8773  | .8783  |
| 115.....                    | .8698                                          | .8708  | .8718  | .8727  | .8737  | .8747  | .8757  | .8767  | .8776  | .8786  |
| 116.....                    | .8701                                          | .8711  | .8721  | .8730  | .8740  | .8750  | .8760  | .8770  | .8779  | .8789  |
| 117.....                    | .8705                                          | .8715  | .8725  | .8734  | .8744  | .8754  | .8764  | .8774  | .8783  | .8793  |
| 118.....                    | .8708                                          | .8718  | .8728  | .8737  | .8747  | .8757  | .8767  | .8777  | .8786  | .8796  |
| 119.....                    | .8712                                          | .8722  | .8732  | .8741  | .8751  | .8761  | .8771  | .8781  | .8790  | .8800  |
| 120.....                    | .8715                                          | .8725  | .8735  | .8745  | .8755  | .8764  | .8774  | .8784  | .8794  | .8804  |
| 121.....                    | .8719                                          | .8729  | .8739  | .8748  | .8758  | .8768  | .8778  | .8788  | .8797  | .8807  |
| 122.....                    | .8723                                          | .8733  | .8743  | .8752  | .8762  | .8772  | .8782  | .8792  | .8801  | .8811  |
| 123.....                    | .8726                                          | .8736  | .8746  | .8755  | .8765  | .8775  | .8785  | .8795  | .8804  | .8814  |
| 124.....                    | .8729                                          | .8739  | .8749  | .8759  | .8769  | .8778  | .8788  | .8798  | .8808  | .8818  |
| 125.....                    | .8733                                          | .8743  | .8753  | .8762  | .8772  | .8782  | .8792  | .8802  | .8811  | .8821  |
| 126.....                    | .8736                                          | .8746  | .8756  | .8766  | .8776  | .8785  | .8795  | .8805  | .8815  | .8825  |
| 127.....                    | .8740                                          | .8750  | .8760  | .8769  | .8779  | .8789  | .8799  | .8809  | .8818  | .8828  |
| 128.....                    | .8744                                          | .8754  | .8764  | .8773  | .8783  | .8793  | .8803  | .8813  | .8822  | .8832  |
| 129.....                    | .8747                                          | .8757  | .8767  | .8776  | .8786  | .8796  | .8806  | .8816  | .8825  | .8835  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed tempera-<br>ture in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|----------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                  | 0.850                                          | 0.851  | 0.852  | 0.853  | 0.854  | 0.855  | 0.856  | 0.857  | 0.858  | 0.859  |
|                                  | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 130.....                         | 0.8750                                         | 0.8760 | 0.8770 | 0.8780 | 0.8790 | 0.8799 | 0.8809 | 0.8819 | 0.8829 | 0.8839 |
| 131.....                         | .8754                                          | .8764  | .8774  | .8783  | .8793  | .8803  | .8813  | .8822  | .8832  | .8842  |
| 132.....                         | .8757                                          | .8767  | .8777  | .8786  | .8796  | .8806  | .8816  | .8826  | .8835  | .8845  |
| 133.....                         | .8760                                          | .8770  | .8780  | .8790  | .8800  | .8809  | .8819  | .8829  | .8839  | .8849  |
| 134.....                         | .8763                                          | .8773  | .8783  | .8793  | .8803  | .8812  | .8822  | .8832  | .8842  | .8852  |
| 135.....                         | .8767                                          | .8777  | .8787  | .8797  | .8807  | .8816  | .8826  | .8836  | .8846  | .8856  |
| 136.....                         | .8771                                          | .8781  | .8791  | .8800  | .8810  | .8820  | .8830  | .8840  | .8849  | .8859  |
| 137.....                         | .8774                                          | .8784  | .8794  | .8804  | .8814  | .8823  | .8833  | .8843  | .8853  | .8863  |
| 138.....                         | .8778                                          | .8788  | .8798  | .8807  | .8817  | .8827  | .8837  | .8847  | .8856  | .8866  |
| 139.....                         | .8782                                          | .8792  | .8802  | .8811  | .8821  | .8831  | .8841  | .8851  | .8860  | .8870  |
| 140.....                         | .8786                                          | .8796  | .8806  | .8815  | .8825  | .8835  | .8845  | .8855  | .8864  | .8874  |
| 141.....                         | .8789                                          | .8799  | .8809  | .8818  | .8828  | .8838  | .8848  | .8858  | .8867  | .8877  |
| 142.....                         | .8792                                          | .8802  | .8812  | .8821  | .8831  | .8841  | .8851  | .8861  | .8870  | .8880  |
| 143.....                         | .8796                                          | .8806  | .8816  | .8825  | .8835  | .8845  | .8855  | .8865  | .8874  | .8884  |
| 144.....                         | .8799                                          | .8809  | .8819  | .8828  | .8838  | .8848  | .8858  | .8868  | .8877  | .8887  |
| 145.....                         | .8802                                          | .8812  | .8822  | .8831  | .8841  | .8851  | .8861  | .8871  | .8880  | .8890  |
| 146.....                         | .8805                                          | .8815  | .8825  | .8834  | .8844  | .8854  | .8864  | .8874  | .8883  | .8893  |
| 147.....                         | .8808                                          | .8818  | .8828  | .8837  | .8847  | .8857  | .8867  | .8877  | .8886  | .8896  |
| 148.....                         | .8811                                          | .8821  | .8831  | .8840  | .8850  | .8860  | .8870  | .8880  | .8889  | .8899  |
| 149.....                         | .8815                                          | .8825  | .8835  | .8844  | .8854  | .8864  | .8874  | .8884  | .8893  | .8903  |
| 150.....                         | .8818                                          | .8828  | .8838  | .8847  | .8857  | .8867  | .8877  | .8887  | .8896  | .8906  |
| 151.....                         | .8822                                          | .8832  | .8842  | .8851  | .8861  | .8871  | .8881  | .8891  | .8900  | .8910  |
| 152.....                         | .8825                                          | .8835  | .8845  | .8854  | .8864  | .8874  | .8884  | .8894  | .8903  | .8913  |
| 153.....                         | .8828                                          | .8838  | .8848  | .8857  | .8867  | .8877  | .8887  | .8897  | .8906  | .8916  |
| 154.....                         | .8832                                          | .8842  | .8852  | .8861  | .8871  | .8881  | .8891  | .8901  | .8910  | .8920  |
| 155.....                         | .8835                                          | .8845  | .8855  | .8864  | .8874  | .8884  | .8894  | .8904  | .8913  | .8923  |
| 156.....                         | .8839                                          | .8849  | .8859  | .8868  | .8878  | .8888  | .8898  | .8908  | .8917  | .8927  |
| 157.....                         | .8843                                          | .8853  | .8863  | .8872  | .8882  | .8892  | .8902  | .8912  | .8921  | .8931  |
| 158.....                         | .8846                                          | .8856  | .8866  | .8875  | .8885  | .8895  | .8905  | .8915  | .8924  | .8934  |
| 159.....                         | .8850                                          | .8860  | .8870  | .8879  | .8889  | .8899  | .8909  | .8919  | .8928  | .8938  |
| 160.....                         | .8853                                          | .8863  | .8873  | .8882  | .8892  | .8902  | .8912  | .8922  | .8931  | .8941  |
| 161.....                         | .8856                                          | .8866  | .8876  | .8885  | .8895  | .8905  | .8915  | .8925  | .8934  | .8944  |
| 162.....                         | .8859                                          | .8869  | .8879  | .8888  | .8898  | .8908  | .8918  | .8928  | .8937  | .8947  |
| 163.....                         | .8863                                          | .8873  | .8883  | .8892  | .8902  | .8912  | .8922  | .8932  | .8941  | .8951  |
| 164.....                         | .8867                                          | .8877  | .8886  | .8896  | .8906  | .8915  | .8925  | .8935  | .8945  | .8954  |
| 165.....                         | .8871                                          | .8881  | .8890  | .8900  | .8910  | .8919  | .8929  | .8939  | .8949  | .8953  |
| 166.....                         | .8874                                          | .8884  | .8894  | .8903  | .8913  | .8923  | .8933  | .8943  | .8952  | .8962  |
| 167.....                         | .8878                                          | .8888  | .8897  | .8907  | .8917  | .8926  | .8936  | .8946  | .8956  | .8965  |
| 168.....                         | .8881                                          | .8891  | .8901  | .8910  | .8920  | .8930  | .8940  | .8950  | .8959  | .8969  |
| 169.....                         | .8884                                          | .8894  | .8904  | .8913  | .8923  | .8933  | .8943  | .8953  | .8962  | .8972  |
| 170.....                         | .8887                                          | .8897  | .8907  | .8916  | .8926  | .8936  | .8946  | .8956  | .8965  | .8975  |
| 171.....                         | .8890                                          | .8900  | .8910  | .8919  | .8929  | .8939  | .8949  | .8959  | .8968  | .8978  |
| 172.....                         | .8893                                          | .8903  | .8913  | .8922  | .8932  | .8942  | .8952  | .8962  | .8971  | .8981  |
| 173.....                         | .8897                                          | .8907  | .8917  | .8926  | .8936  | .8946  | .8956  | .8966  | .8975  | .8985  |
| 174.....                         | .8901                                          | .8911  | .8921  | .8930  | .8940  | .8950  | .8960  | .8970  | .8979  | .8989  |
| 175.....                         | .8905                                          | .8915  | .8925  | .8934  | .8944  | .8954  | .8964  | .8974  | .8983  | .8993  |
| 176.....                         | .8908                                          | .8918  | .8928  | .8937  | .8947  | .8957  | .8967  | .8977  | .8986  | .8996  |
| 177.....                         | .8912                                          | .8922  | .8932  | .8941  | .8951  | .8961  | .8971  | .8981  | .8990  | .9000  |
| 178.....                         | .8915                                          | .8925  | .8935  | .8944  | .8954  | .8964  | .8974  | .8984  | .8993  | .9003  |
| 179.....                         | .8918                                          | .8928  | .8938  | .8947  | .8957  | .8967  | .8977  | .8987  | .8996  | .9006  |
| 180.....                         | .8921                                          | .8931  | .8941  | .8950  | .8960  | .8970  | .8980  | .8990  | .8999  | .9009  |
| 181.....                         | .8925                                          | .8935  | .8945  | .8954  | .8964  | .8974  | .8984  | .8994  | .9003  | .9013  |
| 182.....                         | .8928                                          | .8938  | .8948  | .8957  | .8967  | .8977  | .8987  | .8997  | .9006  | .9016  |
| 183.....                         | .8931                                          | .8941  | .8951  | .8960  | .8970  | .8980  | .8990  | .9000  | .9009  | .9019  |
| 184.....                         | .8935                                          | .8945  | .8954  | .8964  | .8974  | .8983  | .8993  | .9003  | .9013  | .9022  |
| 185.....                         | .8938                                          | .8948  | .8957  | .8967  | .8977  | .8986  | .8996  | .9006  | .9016  | .9025  |
| 186.....                         | .8942                                          | .8952  | .8961  | .8971  | .8981  | .8990  | .9000  | .9010  | .9020  | .9029  |
| 187.....                         | .8945                                          | .8955  | .8964  | .8974  | .8984  | .8993  | .9003  | .9013  | .9023  | .9032  |
| 188.....                         | .8949                                          | .8959  | .8968  | .8978  | .8988  | .8997  | .9007  | .9017  | .9027  | .9036  |
| 189.....                         | .8952                                          | .8962  | .8971  | .8981  | .8991  | .9000  | .9010  | .9020  | .9030  | .9039  |
| 190.....                         | .8955                                          | .8965  | .8974  | .8984  | .8994  | .9003  | .9013  | .9023  | .9033  | .9042  |
| 191.....                         | .8959                                          | .8969  | .8978  | .8988  | .8998  | .9007  | .9017  | .9027  | .9037  | .9046  |
| 192.....                         | .8962                                          | .8972  | .8981  | .8991  | .9001  | .9010  | .9020  | .9030  | .9040  | .9049  |
| 193.....                         | .8965                                          | .8975  | .8984  | .8994  | .9004  | .9013  | .9023  | .9033  | .9043  | .9052  |
| 194.....                         | .8968                                          | .8978  | .8988  | .8997  | .9007  | .9017  | .9027  | .9037  | .9046  | .9056  |
| 195.....                         | .8971                                          | .8981  | .8991  | .9000  | .9010  | .9020  | .9030  | .9040  | .9049  | .9059  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.860                                          | 0.861  | 0.862  | 0.863  | 0.864  | 0.865  | 0.866  | 0.867  | 0.868  | 0.869  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.8374                                         | 0.8384 | 0.8394 | 0.8405 | 0.8415 | 0.8425 | 0.8435 | 0.8445 | 0.8456 | 0.8466 |
| 1.....                      | .8378                                          | .8388  | .8398  | .8409  | .8419  | .8429  | .8439  | .8449  | .8460  | .8470  |
| 2.....                      | .8383                                          | .8393  | .8403  | .8414  | .8424  | .8434  | .8444  | .8454  | .8465  | .8475  |
| 3.....                      | .8387                                          | .8397  | .8407  | .8418  | .8428  | .8438  | .8448  | .8458  | .8469  | .8479  |
| 4.....                      | .8391                                          | .8401  | .8411  | .8422  | .8432  | .8442  | .8452  | .8462  | .8473  | .8483  |
| 5.....                      | .8395                                          | .8405  | .8415  | .8426  | .8436  | .8446  | .8456  | .8466  | .8477  | .8487  |
| 6.....                      | .8399                                          | .8409  | .8419  | .8430  | .8440  | .8450  | .8460  | .8470  | .8481  | .8491  |
| 7.....                      | .8403                                          | .8413  | .8423  | .8433  | .8443  | .8454  | .8464  | .8474  | .8484  | .8494  |
| 8.....                      | .8407                                          | .8417  | .8427  | .8437  | .8447  | .8458  | .8468  | .8478  | .8488  | .8498  |
| 9.....                      | .8410                                          | .8420  | .8430  | .8441  | .8451  | .8461  | .8471  | .8481  | .8492  | .8502  |
| 10.....                     | .8414                                          | .8424  | .8434  | .8445  | .8455  | .8465  | .8475  | .8485  | .8496  | .8506  |
| 11.....                     | .8418                                          | .8428  | .8438  | .8449  | .8459  | .8469  | .8479  | .8489  | .8500  | .8510  |
| 12.....                     | .8422                                          | .8432  | .8442  | .8452  | .8462  | .8473  | .8483  | .8493  | .8503  | .8513  |
| 13.....                     | .8426                                          | .8436  | .8446  | .8456  | .8466  | .8477  | .8487  | .8497  | .8507  | .8517  |
| 14.....                     | .8429                                          | .8439  | .8449  | .8460  | .8470  | .8480  | .8490  | .8500  | .8511  | .8521  |
| 15.....                     | .8433                                          | .8443  | .8453  | .8464  | .8474  | .8484  | .8494  | .8504  | .8515  | .8525  |
| 16.....                     | .8437                                          | .8447  | .8457  | .8468  | .8478  | .8488  | .8498  | .8508  | .8519  | .8529  |
| 17.....                     | .8441                                          | .8451  | .8461  | .8471  | .8481  | .8492  | .8502  | .8512  | .8522  | .8532  |
| 18.....                     | .8444                                          | .8454  | .8464  | .8475  | .8485  | .8495  | .8505  | .8515  | .8526  | .8536  |
| 19.....                     | .8448                                          | .8458  | .8468  | .8479  | .8489  | .8499  | .8509  | .8519  | .8530  | .8540  |
| 20.....                     | .8452                                          | .8462  | .8472  | .8482  | .8492  | .8503  | .8513  | .8523  | .8533  | .8543  |
| 21.....                     | .8456                                          | .8466  | .8476  | .8486  | .8496  | .8507  | .8517  | .8527  | .8537  | .8547  |
| 22.....                     | .8460                                          | .8470  | .8480  | .8490  | .8500  | .8511  | .8521  | .8531  | .8541  | .8551  |
| 23.....                     | .8463                                          | .8473  | .8483  | .8493  | .8503  | .8514  | .8524  | .8534  | .8544  | .8554  |
| 24.....                     | .8467                                          | .8477  | .8487  | .8497  | .8507  | .8518  | .8528  | .8538  | .8548  | .8558  |
| 25.....                     | .8471                                          | .8481  | .8491  | .8501  | .8511  | .8522  | .8532  | .8542  | .8552  | .8562  |
| 26.....                     | .8475                                          | .8485  | .8495  | .8505  | .8515  | .8526  | .8536  | .8546  | .8556  | .8566  |
| 27.....                     | .8479                                          | .8489  | .8499  | .8509  | .8519  | .8530  | .8540  | .8550  | .8560  | .8570  |
| 28.....                     | .8482                                          | .8492  | .8502  | .8512  | .8522  | .8533  | .8543  | .8553  | .8563  | .8573  |
| 29.....                     | .8486                                          | .8496  | .8506  | .8516  | .8526  | .8537  | .8547  | .8557  | .8567  | .8577  |
| 30.....                     | .8490                                          | .8500  | .8510  | .8520  | .8530  | .8541  | .8551  | .8561  | .8571  | .8581  |
| 31.....                     | .8494                                          | .8504  | .8514  | .8524  | .8534  | .8545  | .8555  | .8565  | .8575  | .8585  |
| 32.....                     | .8497                                          | .8507  | .8517  | .8527  | .8537  | .8548  | .8558  | .8568  | .8578  | .8588  |
| 33.....                     | .8501                                          | .8511  | .8521  | .8531  | .8541  | .8552  | .8562  | .8572  | .8582  | .8592  |
| 34.....                     | .8504                                          | .8514  | .8524  | .8534  | .8544  | .8555  | .8565  | .8575  | .8585  | .8595  |
| 35.....                     | .8508                                          | .8518  | .8528  | .8538  | .8548  | .8559  | .8569  | .8579  | .8589  | .8599  |
| 36.....                     | .8512                                          | .8522  | .8532  | .8542  | .8552  | .8563  | .8573  | .8583  | .8593  | .8603  |
| 37.....                     | .8516                                          | .8526  | .8536  | .8546  | .8556  | .8567  | .8577  | .8587  | .8597  | .8607  |
| 38.....                     | .8519                                          | .8529  | .8539  | .8549  | .8559  | .8570  | .8580  | .8590  | .8600  | .8610  |
| 39.....                     | .8523                                          | .8533  | .8543  | .8553  | .8563  | .8574  | .8584  | .8594  | .8604  | .8614  |
| 40.....                     | .8527                                          | .8537  | .8547  | .8557  | .8567  | .8578  | .8588  | .8598  | .8608  | .8618  |
| 41.....                     | .8530                                          | .8540  | .8550  | .8560  | .8570  | .8581  | .8591  | .8601  | .8611  | .8621  |
| 42.....                     | .8534                                          | .8544  | .8554  | .8564  | .8574  | .8585  | .8595  | .8605  | .8615  | .8625  |
| 43.....                     | .8538                                          | .8548  | .8558  | .8568  | .8578  | .8589  | .8599  | .8609  | .8619  | .8629  |
| 44.....                     | .8541                                          | .8551  | .8561  | .8571  | .8581  | .8592  | .8602  | .8612  | .8622  | .8632  |
| 45.....                     | .8545                                          | .8555  | .8565  | .8575  | .8585  | .8596  | .8606  | .8616  | .8626  | .8636  |
| 46.....                     | .8549                                          | .8559  | .8569  | .8579  | .8589  | .8600  | .8610  | .8620  | .8630  | .8640  |
| 47.....                     | .8552                                          | .8562  | .8572  | .8582  | .8592  | .8603  | .8613  | .8623  | .8633  | .8643  |
| 48.....                     | .8556                                          | .8566  | .8576  | .8586  | .8596  | .8607  | .8617  | .8627  | .8637  | .8647  |
| 49.....                     | .8559                                          | .8569  | .8579  | .8589  | .8599  | .8610  | .8620  | .8630  | .8640  | .8650  |
| 50.....                     | .8563                                          | .8573  | .8583  | .8593  | .8603  | .8614  | .8624  | .8634  | .8644  | .8654  |
| 51.....                     | .8566                                          | .8576  | .8586  | .8596  | .8606  | .8617  | .8627  | .8637  | .8647  | .8657  |
| 52.....                     | .8570                                          | .8580  | .8590  | .8600  | .8610  | .8621  | .8631  | .8641  | .8651  | .8661  |
| 53.....                     | .8574                                          | .8584  | .8594  | .8604  | .8614  | .8625  | .8635  | .8645  | .8655  | .8665  |
| 54.....                     | .8578                                          | .8588  | .8598  | .8608  | .8618  | .8629  | .8639  | .8649  | .8659  | .8669  |
| 55.....                     | .8581                                          | .8591  | .8601  | .8611  | .8621  | .8632  | .8642  | .8652  | .8662  | .8672  |
| 56.....                     | .8585                                          | .8595  | .8605  | .8615  | .8625  | .8636  | .8646  | .8656  | .8666  | .8676  |
| 57.....                     | .8589                                          | .8599  | .8609  | .8619  | .8629  | .8640  | .8650  | .8660  | .8670  | .8680  |
| 58.....                     | .8593                                          | .8603  | .8613  | .8623  | .8633  | .8643  | .8653  | .8663  | .8673  | .8683  |
| 59.....                     | .8596                                          | .8606  | .8616  | .8626  | .8636  | .8647  | .8657  | .8667  | .8677  | .8687  |
| 60.....                     | .8600                                          | .8610  | .8620  | .8630  | .8640  | .8650  | .8660  | .8670  | .8680  | .8690  |
| 61.....                     | .8604                                          | .8614  | .8624  | .8634  | .8644  | .8654  | .8664  | .8674  | .8684  | .8694  |
| 62.....                     | .8607                                          | .8617  | .8627  | .8637  | .8647  | .8657  | .8667  | .8677  | .8687  | .8697  |
| 63.....                     | .8610                                          | .8620  | .8630  | .8640  | .8650  | .8660  | .8670  | .8680  | .8690  | .8700  |
| 64.....                     | .8614                                          | .8624  | .8634  | .8644  | .8654  | .8664  | .8674  | .8684  | .8694  | .8704  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in ° F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 0.860                                          | 0.861  | 0.862  | 0.863  | 0.864  | 0.865  | 0.866  | 0.867  | 0.868  | 0.869  |
|                              | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                      | 0.8618                                         | 0.8628 | 0.8638 | 0.8648 | 0.8658 | 0.8668 | 0.8678 | 0.8688 | 0.8698 | 0.8708 |
| 66.....                      | .8622                                          | .8632  | .8642  | .8652  | .8662  | .8672  | .8682  | .8692  | .8702  | .8712  |
| 67.....                      | .8625                                          | .8635  | .8645  | .8655  | .8665  | .8676  | .8686  | .8696  | .8706  | .8716  |
| 68.....                      | .8629                                          | .8639  | .8649  | .8659  | .8669  | .8679  | .8689  | .8699  | .8709  | .8719  |
| 69.....                      | .8633                                          | .8643  | .8653  | .8663  | .8673  | .8683  | .8693  | .8703  | .8713  | .8723  |
| 70.....                      | .8637                                          | .8647  | .8657  | .8667  | .8677  | .8687  | .8697  | .8707  | .8717  | .8727  |
| 71.....                      | .8640                                          | .8650  | .8660  | .8670  | .8680  | .8690  | .8700  | .8710  | .8720  | .8730  |
| 72.....                      | .8644                                          | .8654  | .8664  | .8674  | .8684  | .8694  | .8704  | .8714  | .8724  | .8734  |
| 73.....                      | .8648                                          | .8658  | .8668  | .8678  | .8688  | .8698  | .8708  | .8718  | .8728  | .8738  |
| 74.....                      | .8652                                          | .8662  | .8672  | .8682  | .8692  | .8702  | .8712  | .8722  | .8732  | .8742  |
| 75.....                      | .8655                                          | .8665  | .8675  | .8685  | .8695  | .8705  | .8715  | .8725  | .8735  | .8745  |
| 76.....                      | .8659                                          | .8669  | .8679  | .8689  | .8699  | .8708  | .8718  | .8728  | .8738  | .8748  |
| 77.....                      | .8662                                          | .8672  | .8682  | .8692  | .8702  | .8711  | .8721  | .8731  | .8741  | .8751  |
| 78.....                      | .8666                                          | .8676  | .8686  | .8696  | .8706  | .8715  | .8725  | .8735  | .8745  | .8755  |
| 79.....                      | .8670                                          | .8680  | .8690  | .8700  | .8710  | .8719  | .8729  | .8739  | .8749  | .8759  |
| 80.....                      | .8673                                          | .8683  | .8693  | .8703  | .8713  | .8723  | .8733  | .8743  | .8753  | .8763  |
| 81.....                      | .8677                                          | .8687  | .8697  | .8707  | .8717  | .8726  | .8736  | .8746  | .8756  | .8766  |
| 82.....                      | .8680                                          | .8690  | .8700  | .8710  | .8720  | .8730  | .8740  | .8750  | .8760  | .8770  |
| 83.....                      | .8684                                          | .8694  | .8704  | .8714  | .8724  | .8733  | .8743  | .8753  | .8763  | .8773  |
| 84.....                      | .8688                                          | .8698  | .8708  | .8718  | .8728  | .8737  | .8747  | .8757  | .8767  | .8777  |
| 85.....                      | .8691                                          | .8701  | .8711  | .8721  | .8731  | .8740  | .8750  | .8760  | .8770  | .8780  |
| 86.....                      | .8695                                          | .8705  | .8715  | .8725  | .8735  | .8744  | .8754  | .8764  | .8774  | .8784  |
| 87.....                      | .8698                                          | .8708  | .8718  | .8728  | .8738  | .8747  | .8757  | .8767  | .8777  | .8787  |
| 88.....                      | .8702                                          | .8712  | .8722  | .8732  | .8742  | .8751  | .8761  | .8771  | .8781  | .8791  |
| 89.....                      | .8705                                          | .8715  | .8725  | .8735  | .8745  | .8754  | .8764  | .8774  | .8784  | .8794  |
| 90.....                      | .8709                                          | .8719  | .8729  | .8739  | .8749  | .8758  | .8768  | .8778  | .8788  | .8798  |
| 91.....                      | .8713                                          | .8723  | .8733  | .8743  | .8753  | .8762  | .8772  | .8782  | .8792  | .8802  |
| 92.....                      | .8716                                          | .8726  | .8736  | .8746  | .8756  | .8765  | .8775  | .8785  | .8795  | .8805  |
| 93.....                      | .8719                                          | .8729  | .8739  | .8749  | .8759  | .8768  | .8778  | .8788  | .8798  | .8808  |
| 94.....                      | .8723                                          | .8733  | .8743  | .8753  | .8763  | .8772  | .8782  | .8792  | .8802  | .8812  |
| 95.....                      | .8726                                          | .8736  | .8746  | .8756  | .8766  | .8775  | .8785  | .8795  | .8805  | .8815  |
| 96.....                      | .8730                                          | .8740  | .8750  | .8760  | .8770  | .8779  | .8789  | .8799  | .8809  | .8819  |
| 97.....                      | .8733                                          | .8743  | .8753  | .8763  | .8773  | .8782  | .8792  | .8802  | .8812  | .8822  |
| 98.....                      | .8737                                          | .8747  | .8757  | .8767  | .8777  | .8786  | .8796  | .8806  | .8816  | .8826  |
| 99.....                      | .8740                                          | .8750  | .8760  | .8770  | .8780  | .8789  | .8799  | .8809  | .8819  | .8829  |
| 100.....                     | .8743                                          | .8753  | .8763  | .8773  | .8783  | .8793  | .8803  | .8813  | .8823  | .8833  |
| 101.....                     | .8747                                          | .8757  | .8767  | .8777  | .8787  | .8797  | .8807  | .8817  | .8827  | .8837  |
| 102.....                     | .8751                                          | .8761  | .8771  | .8781  | .8791  | .8801  | .8811  | .8821  | .8831  | .8841  |
| 103.....                     | .8755                                          | .8765  | .8775  | .8785  | .8795  | .8804  | .8814  | .8824  | .8834  | .8844  |
| 104.....                     | .8758                                          | .8768  | .8778  | .8788  | .8798  | .8807  | .8817  | .8827  | .8837  | .8847  |
| 105.....                     | .8762                                          | .8772  | .8782  | .8792  | .8802  | .8811  | .8821  | .8831  | .8841  | .8851  |
| 106.....                     | .8765                                          | .8775  | .8785  | .8795  | .8805  | .8814  | .8824  | .8834  | .8844  | .8854  |
| 107.....                     | .8769                                          | .8779  | .8789  | .8799  | .8809  | .8818  | .8828  | .8838  | .8848  | .8858  |
| 108.....                     | .8772                                          | .8782  | .8792  | .8802  | .8812  | .8821  | .8831  | .8841  | .8851  | .8861  |
| 109.....                     | .8776                                          | .8786  | .8796  | .8806  | .8816  | .8825  | .8835  | .8845  | .8855  | .8865  |
| 110.....                     | .8779                                          | .8789  | .8799  | .8809  | .8819  | .8828  | .8838  | .8848  | .8858  | .8868  |
| 111.....                     | .8783                                          | .8793  | .8803  | .8813  | .8823  | .8832  | .8842  | .8852  | .8862  | .8872  |
| 112.....                     | .8786                                          | .8796  | .8806  | .8816  | .8826  | .8835  | .8845  | .8855  | .8865  | .8875  |
| 113.....                     | .8790                                          | .8800  | .8810  | .8820  | .8830  | .8839  | .8849  | .8859  | .8869  | .8879  |
| 114.....                     | .8793                                          | .8803  | .8813  | .8823  | .8833  | .8842  | .8852  | .8862  | .8872  | .8882  |
| 115.....                     | .8796                                          | .8806  | .8816  | .8826  | .8836  | .8845  | .8855  | .8865  | .8875  | .8885  |
| 116.....                     | .8799                                          | .8809  | .8819  | .8829  | .8839  | .8848  | .8858  | .8868  | .8878  | .8888  |
| 117.....                     | .8803                                          | .8813  | .8823  | .8833  | .8843  | .8852  | .8862  | .8872  | .8882  | .8892  |
| 118.....                     | .8806                                          | .8816  | .8826  | .8836  | .8846  | .8855  | .8865  | .8875  | .8885  | .8895  |
| 119.....                     | .8810                                          | .8820  | .8830  | .8840  | .8850  | .8859  | .8869  | .8879  | .8889  | .8899  |
| 120.....                     | .8814                                          | .8824  | .8834  | .8844  | .8854  | .8863  | .8873  | .8883  | .8893  | .8903  |
| 121.....                     | .8817                                          | .8827  | .8837  | .8847  | .8857  | .8866  | .8876  | .8886  | .8896  | .8906  |
| 122.....                     | .8821                                          | .8831  | .8841  | .8851  | .8861  | .8870  | .8880  | .8890  | .8900  | .8910  |
| 123.....                     | .8824                                          | .8834  | .8844  | .8854  | .8864  | .8873  | .8883  | .8893  | .8903  | .8913  |
| 124.....                     | .8828                                          | .8838  | .8848  | .8858  | .8868  | .8877  | .8887  | .8897  | .8907  | .8917  |
| 125.....                     | .8831                                          | .8841  | .8851  | .8861  | .8871  | .8880  | .8890  | .8900  | .8910  | .8920  |
| 126.....                     | .8835                                          | .8845  | .8855  | .8864  | .8874  | .8884  | .8894  | .8904  | .8913  | .8923  |
| 127.....                     | .8838                                          | .8848  | .8858  | .8868  | .8878  | .8887  | .8897  | .8907  | .8917  | .8927  |
| 128.....                     | .8842                                          | .8852  | .8862  | .8871  | .8881  | .8891  | .8901  | .8911  | .8920  | .8930  |
| 129.....                     | .8845                                          | .8855  | .8865  | .8875  | .8885  | .8894  | .8904  | .8914  | .8924  | .8934  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.860                                          | 0.861  | 0.862  | 0.863  | 0.864  | 0.865  | 0.866  | 0.867  | 0.868  | 0.869  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 130.....                    | 0.8849                                         | 0.8859 | 0.8869 | 0.8879 | 0.8889 | 0.8898 | 0.8908 | 0.8918 | 0.8928 | 0.8938 |
| 131.....                    | .8852                                          | .8862  | .8872  | .8882  | .8892  | .8901  | .8911  | .8921  | .8931  | .8941  |
| 132.....                    | .8855                                          | .8865  | .8875  | .8885  | .8895  | .8904  | .8914  | .8924  | .8934  | .8944  |
| 133.....                    | .8859                                          | .8869  | .8879  | .8889  | .8899  | .8908  | .8918  | .8928  | .8938  | .8948  |
| 134.....                    | .8862                                          | .8872  | .8882  | .8892  | .8902  | .8911  | .8921  | .8931  | .8941  | .8951  |
| 135.....                    | .8866                                          | .8876  | .8886  | .8895  | .8905  | .8915  | .8925  | .8935  | .8944  | .8954  |
| 136.....                    | .8869                                          | .8879  | .8889  | .8899  | .8909  | .8918  | .8928  | .8938  | .8948  | .8958  |
| 137.....                    | .8873                                          | .8883  | .8893  | .8902  | .8912  | .8922  | .8932  | .8942  | .8951  | .8961  |
| 138.....                    | .8876                                          | .8886  | .8896  | .8906  | .8916  | .8925  | .8935  | .8945  | .8955  | .8965  |
| 139.....                    | .8880                                          | .8890  | .8900  | .8909  | .8919  | .8929  | .8939  | .8949  | .8958  | .8968  |
| 140.....                    | .8884                                          | .8894  | .8904  | .8913  | .8923  | .8933  | .8943  | .8953  | .8962  | .8972  |
| 141.....                    | .8887                                          | .8897  | .8907  | .8916  | .8926  | .8936  | .8946  | .8956  | .8965  | .8975  |
| 142.....                    | .8890                                          | .8900  | .8910  | .8919  | .8929  | .8939  | .8949  | .8959  | .8968  | .8978  |
| 143.....                    | .8894                                          | .8904  | .8914  | .8923  | .8933  | .8943  | .8953  | .8963  | .8972  | .8982  |
| 144.....                    | .8897                                          | .8907  | .8917  | .8926  | .8936  | .8945  | .8956  | .8966  | .8975  | .8985  |
| 145.....                    | .8900                                          | .8910  | .8920  | .8929  | .8939  | .8949  | .8959  | .8969  | .8978  | .8988  |
| 146.....                    | .8903                                          | .8913  | .8923  | .8932  | .8942  | .8952  | .8962  | .8972  | .8981  | .8991  |
| 147.....                    | .8906                                          | .8916  | .8926  | .8936  | .8946  | .8955  | .8965  | .8975  | .8985  | .8995  |
| 148.....                    | .8909                                          | .8919  | .8929  | .8939  | .8949  | .8958  | .8968  | .8978  | .8988  | .8998  |
| 149.....                    | .8913                                          | .8923  | .8933  | .8942  | .8952  | .8962  | .8972  | .8982  | .8991  | .9001  |
| 150.....                    | .8916                                          | .8926  | .8936  | .8945  | .8955  | .8965  | .8975  | .8985  | .8994  | .9004  |
| 151.....                    | .8920                                          | .8930  | .8940  | .8949  | .8959  | .8969  | .8979  | .8989  | .8998  | .9008  |
| 152.....                    | .8923                                          | .8933  | .8943  | .8952  | .8962  | .8972  | .8982  | .8992  | .9001  | .9011  |
| 153.....                    | .8926                                          | .8936  | .8946  | .8955  | .8965  | .8975  | .8985  | .8995  | .9004  | .9014  |
| 154.....                    | .8930                                          | .8940  | .8950  | .8959  | .8969  | .8979  | .8989  | .8999  | .9008  | .9018  |
| 155.....                    | .8933                                          | .8943  | .8953  | .8962  | .8972  | .8982  | .8992  | .9002  | .9011  | .9021  |
| 156.....                    | .8937                                          | .8947  | .8957  | .8966  | .8976  | .8986  | .8996  | .9006  | .9015  | .9025  |
| 157.....                    | .8941                                          | .8951  | .8961  | .8970  | .8980  | .8990  | .9000  | .9010  | .9019  | .9029  |
| 158.....                    | .8944                                          | .8954  | .8964  | .8973  | .8983  | .8993  | .9003  | .9013  | .9022  | .9032  |
| 159.....                    | .8948                                          | .8958  | .8968  | .8977  | .8987  | .8997  | .9007  | .9017  | .9026  | .9036  |
| 160.....                    | .8951                                          | .8961  | .8971  | .8980  | .8990  | .9000  | .9010  | .9020  | .9029  | .9039  |
| 161.....                    | .8954                                          | .8964  | .8974  | .8983  | .8993  | .9003  | .9013  | .9023  | .9032  | .9042  |
| 162.....                    | .8957                                          | .8967  | .8977  | .8986  | .8996  | .9006  | .9016  | .9026  | .9035  | .9045  |
| 163.....                    | .8961                                          | .8971  | .8981  | .8990  | .9000  | .9010  | .9020  | .9030  | .9039  | .9049  |
| 164.....                    | .8964                                          | .8974  | .8984  | .8993  | .9003  | .9013  | .9023  | .9033  | .9042  | .9052  |
| 165.....                    | .8968                                          | .8978  | .8988  | .8997  | .9007  | .9017  | .9027  | .9037  | .9046  | .9056  |
| 166.....                    | .8972                                          | .8982  | .8992  | .9001  | .9011  | .9021  | .9031  | .9041  | .9050  | .9060  |
| 167.....                    | .8975                                          | .8985  | .8995  | .9005  | .9015  | .9024  | .9034  | .9044  | .9054  | .9064  |
| 168.....                    | .8979                                          | .8989  | .8999  | .9008  | .9018  | .9028  | .9038  | .9048  | .9057  | .9067  |
| 169.....                    | .8982                                          | .8992  | .9002  | .9011  | .9021  | .9031  | .9041  | .9051  | .9060  | .9070  |
| 170.....                    | .8985                                          | .8995  | .9005  | .9014  | .9024  | .9034  | .9044  | .9054  | .9063  | .9073  |
| 171.....                    | .8988                                          | .8998  | .9008  | .9017  | .9027  | .9037  | .9047  | .9057  | .9066  | .9076  |
| 172.....                    | .8991                                          | .9001  | .9011  | .9021  | .9031  | .9040  | .9050  | .9060  | .9070  | .9080  |
| 173.....                    | .8995                                          | .9005  | .9015  | .9025  | .9035  | .9044  | .9054  | .9064  | .9074  | .9084  |
| 174.....                    | .8999                                          | .9009  | .9019  | .9028  | .9038  | .9048  | .9058  | .9068  | .9077  | .9087  |
| 175.....                    | .9003                                          | .9013  | .9023  | .9032  | .9042  | .9052  | .9062  | .9072  | .9081  | .9091  |
| 176.....                    | .9006                                          | .9016  | .9026  | .9035  | .9045  | .9055  | .9065  | .9075  | .9084  | .9094  |
| 177.....                    | .9010                                          | .9020  | .9030  | .9039  | .9049  | .9059  | .9069  | .9079  | .9088  | .9098  |
| 178.....                    | .9013                                          | .9023  | .9033  | .9042  | .9052  | .9062  | .9072  | .9082  | .9091  | .9101  |
| 179.....                    | .9016                                          | .9026  | .9036  | .9045  | .9055  | .9065  | .9075  | .9085  | .9094  | .9104  |
| 180.....                    | .9019                                          | .9029  | .9039  | .9048  | .9058  | .9068  | .9078  | .9088  | .9097  | .9107  |
| 181.....                    | .9023                                          | .9033  | .9043  | .9052  | .9062  | .9072  | .9082  | .9092  | .9101  | .9111  |
| 182.....                    | .9026                                          | .9036  | .9046  | .9055  | .9065  | .9075  | .9085  | .9095  | .9104  | .9114  |
| 183.....                    | .9029                                          | .9039  | .9049  | .9058  | .9068  | .9078  | .9088  | .9098  | .9107  | .9117  |
| 184.....                    | .9032                                          | .9042  | .9052  | .9061  | .9071  | .9081  | .9091  | .9101  | .9110  | .9120  |
| 185.....                    | .9035                                          | .9045  | .9055  | .9064  | .9074  | .9084  | .9094  | .9104  | .9113  | .9123  |
| 186.....                    | .9039                                          | .9049  | .9059  | .9068  | .9078  | .9088  | .9098  | .9108  | .9117  | .9127  |
| 187.....                    | .9042                                          | .9052  | .9062  | .9071  | .9081  | .9091  | .9101  | .9111  | .9120  | .9130  |
| 188.....                    | .9046                                          | .9056  | .9066  | .9075  | .9085  | .9095  | .9105  | .9115  | .9124  | .9134  |
| 189.....                    | .9049                                          | .9059  | .9069  | .9078  | .9088  | .9098  | .9108  | .9118  | .9127  | .9137  |
| 190.....                    | .9052                                          | .9062  | .9072  | .9081  | .9091  | .9101  | .9111  | .9121  | .9130  | .9140  |
| 191.....                    | .9056                                          | .9066  | .9076  | .9085  | .9095  | .9105  | .9115  | .9125  | .9134  | .9144  |
| 192.....                    | .9059                                          | .9069  | .9079  | .9088  | .9098  | .9108  | .9118  | .9128  | .9137  | .9147  |
| 193.....                    | .9062                                          | .9072  | .9082  | .9091  | .9101  | .9111  | .9121  | .9131  | .9140  | .9150  |
| 194.....                    | .9066                                          | .9076  | .9086  | .9095  | .9105  | .9115  | .9125  | .9135  | .9144  | .9154  |
| 195.....                    | .9069                                          | .9079  | .9089  | .9098  | .9108  | .9118  | .9128  | .9138  | .9147  | .9157  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.870                                          | 0.871  | 0.872  | 0.873  | 0.874  | 0.875  | 0.876  | 0.877  | 0.878  | 0.879  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.8476                                         | 0.8486 | 0.8496 | 0.8507 | 0.8517 | 0.8527 | 0.8537 | 0.8547 | 0.8558 | 0.8568 |
| 1.....                      | .8480                                          | .8490  | .8500  | .8511  | .8521  | .8531  | .8541  | .8551  | .8562  | .8572  |
| 2.....                      | .8485                                          | .8495  | .8505  | .8515  | .8525  | .8536  | .8546  | .8556  | .8566  | .8576  |
| 3.....                      | .8489                                          | .8499  | .8509  | .8519  | .8529  | .8540  | .8550  | .8560  | .8570  | .8580  |
| 4.....                      | .8493                                          | .8503  | .8513  | .8523  | .8533  | .8544  | .8554  | .8564  | .8574  | .8584  |
| 5.....                      | .8497                                          | .8507  | .8517  | .8527  | .8537  | .8548  | .8558  | .8568  | .8578  | .8588  |
| 6.....                      | .8501                                          | .8511  | .8521  | .8531  | .8541  | .8552  | .8562  | .8572  | .8582  | .8592  |
| 7.....                      | .8504                                          | .8514  | .8524  | .8535  | .8545  | .8555  | .8565  | .8575  | .8586  | .8596  |
| 8.....                      | .8508                                          | .8518  | .8528  | .8538  | .8548  | .8559  | .8569  | .8579  | .8589  | .8599  |
| 9.....                      | .8512                                          | .8522  | .8532  | .8542  | .8552  | .8563  | .8573  | .8583  | .8593  | .8603  |
| 10.....                     | .8516                                          | .8526  | .8536  | .8546  | .8556  | .8567  | .8577  | .8587  | .8597  | .8607  |
| 11.....                     | .8520                                          | .8530  | .8540  | .8550  | .8560  | .8571  | .8581  | .8591  | .8601  | .8611  |
| 12.....                     | .8523                                          | .8533  | .8543  | .8553  | .8563  | .8574  | .8584  | .8594  | .8604  | .8614  |
| 13.....                     | .8527                                          | .8537  | .8547  | .8557  | .8567  | .8578  | .8588  | .8598  | .8608  | .8618  |
| 14.....                     | .8531                                          | .8541  | .8551  | .8561  | .8571  | .8582  | .8592  | .8602  | .8612  | .8622  |
| 15.....                     | .8535                                          | .8545  | .8555  | .8565  | .8575  | .8586  | .8596  | .8606  | .8616  | .8626  |
| 16.....                     | .8539                                          | .8549  | .8559  | .8569  | .8579  | .8590  | .8600  | .8610  | .8620  | .8630  |
| 17.....                     | .8542                                          | .8552  | .8562  | .8572  | .8582  | .8593  | .8603  | .8613  | .8623  | .8633  |
| 18.....                     | .8546                                          | .8556  | .8566  | .8576  | .8586  | .8597  | .8607  | .8617  | .8627  | .8637  |
| 19.....                     | .8550                                          | .8560  | .8570  | .8580  | .8590  | .8601  | .8611  | .8621  | .8631  | .8641  |
| 20.....                     | .8553                                          | .8563  | .8573  | .8583  | .8593  | .8604  | .8614  | .8624  | .8634  | .8644  |
| 21.....                     | .8557                                          | .8567  | .8577  | .8587  | .8597  | .8608  | .8618  | .8628  | .8638  | .8648  |
| 22.....                     | .8561                                          | .8571  | .8581  | .8591  | .8601  | .8611  | .8621  | .8631  | .8641  | .8651  |
| 23.....                     | .8564                                          | .8574  | .8584  | .8594  | .8604  | .8615  | .8625  | .8635  | .8645  | .8655  |
| 24.....                     | .8568                                          | .8578  | .8588  | .8598  | .8608  | .8619  | .8629  | .8639  | .8649  | .8659  |
| 25.....                     | .8572                                          | .8582  | .8592  | .8602  | .8612  | .8622  | .8632  | .8642  | .8652  | .8662  |
| 26.....                     | .8576                                          | .8586  | .8596  | .8606  | .8616  | .8626  | .8636  | .8646  | .8656  | .8666  |
| 27.....                     | .8580                                          | .8590  | .8600  | .8610  | .8620  | .8630  | .8640  | .8650  | .8660  | .8670  |
| 28.....                     | .8583                                          | .8593  | .8603  | .8613  | .8623  | .8634  | .8644  | .8654  | .8664  | .8674  |
| 29.....                     | .8587                                          | .8597  | .8607  | .8617  | .8627  | .8637  | .8647  | .8657  | .8667  | .8677  |
| 30.....                     | .8591                                          | .8601  | .8611  | .8621  | .8631  | .8641  | .8651  | .8661  | .8671  | .8681  |
| 31.....                     | .8595                                          | .8605  | .8615  | .8625  | .8635  | .8645  | .8655  | .8665  | .8675  | .8685  |
| 32.....                     | .8598                                          | .8608  | .8618  | .8628  | .8638  | .8648  | .8658  | .8668  | .8678  | .8688  |
| 33.....                     | .8602                                          | .8612  | .8622  | .8632  | .8642  | .8652  | .8662  | .8672  | .8682  | .8692  |
| 34.....                     | .8605                                          | .8615  | .8625  | .8635  | .8645  | .8656  | .8666  | .8676  | .8686  | .8696  |
| 35.....                     | .8609                                          | .8619  | .8629  | .8639  | .8649  | .8660  | .8670  | .8680  | .8690  | .8700  |
| 36.....                     | .8613                                          | .8623  | .8633  | .8643  | .8653  | .8663  | .8673  | .8683  | .8693  | .8703  |
| 37.....                     | .8617                                          | .8627  | .8637  | .8647  | .8657  | .8667  | .8677  | .8687  | .8697  | .8707  |
| 38.....                     | .8620                                          | .8630  | .8640  | .8650  | .8660  | .8671  | .8681  | .8691  | .8701  | .8711  |
| 39.....                     | .8624                                          | .8634  | .8644  | .8654  | .8664  | .8674  | .8684  | .8694  | .8704  | .8714  |
| 40.....                     | .8628                                          | .8638  | .8648  | .8658  | .8668  | .8678  | .8688  | .8698  | .8708  | .8718  |
| 41.....                     | .8631                                          | .8641  | .8651  | .8661  | .8671  | .8681  | .8691  | .8701  | .8711  | .8721  |
| 42.....                     | .8635                                          | .8645  | .8655  | .8665  | .8675  | .8685  | .8695  | .8705  | .8715  | .8725  |
| 43.....                     | .8639                                          | .8649  | .8659  | .8669  | .8679  | .8689  | .8699  | .8709  | .8719  | .8729  |
| 44.....                     | .8642                                          | .8652  | .8662  | .8672  | .8682  | .8693  | .8703  | .8713  | .8723  | .8733  |
| 45.....                     | .8646                                          | .8656  | .8666  | .8676  | .8686  | .8697  | .8707  | .8717  | .8727  | .8737  |
| 46.....                     | .8650                                          | .8660  | .8670  | .8680  | .8690  | .8700  | .8710  | .8720  | .8730  | .8740  |
| 47.....                     | .8653                                          | .8663  | .8673  | .8683  | .8693  | .8704  | .8714  | .8724  | .8734  | .8744  |
| 48.....                     | .8657                                          | .8667  | .8677  | .8687  | .8697  | .8707  | .8717  | .8727  | .8737  | .8747  |
| 49.....                     | .8660                                          | .8670  | .8680  | .8690  | .8700  | .8711  | .8721  | .8731  | .8741  | .8751  |
| 50.....                     | .8664                                          | .8674  | .8684  | .8694  | .8704  | .8714  | .8724  | .8734  | .8744  | .8754  |
| 51.....                     | .8667                                          | .8677  | .8687  | .8697  | .8707  | .8718  | .8728  | .8738  | .8748  | .8758  |
| 52.....                     | .8671                                          | .8681  | .8691  | .8701  | .8711  | .8722  | .8732  | .8742  | .8752  | .8762  |
| 53.....                     | .8675                                          | .8685  | .8695  | .8705  | .8715  | .8725  | .8735  | .8745  | .8755  | .8765  |
| 54.....                     | .8679                                          | .8689  | .8699  | .8709  | .8719  | .8729  | .8739  | .8749  | .8759  | .8769  |
| 55.....                     | .8682                                          | .8692  | .8702  | .8712  | .8722  | .8732  | .8742  | .8752  | .8762  | .8772  |
| 56.....                     | .8685                                          | .8696  | .8706  | .8716  | .8726  | .8736  | .8746  | .8756  | .8766  | .8776  |
| 57.....                     | .8690                                          | .8700  | .8710  | .8720  | .8730  | .8740  | .8750  | .8760  | .8770  | .8780  |
| 58.....                     | .8693                                          | .8703  | .8713  | .8723  | .8733  | .8743  | .8753  | .8763  | .8773  | .8783  |
| 59.....                     | .8697                                          | .8707  | .8717  | .8727  | .8737  | .8747  | .8757  | .8767  | .8777  | .8787  |
| 60.....                     | .8700                                          | .8710  | .8720  | .8730  | .8740  | .8750  | .8760  | .8770  | .8780  | .8790  |
| 61.....                     | .8704                                          | .8714  | .8724  | .8734  | .8744  | .8754  | .8764  | .8774  | .8784  | .8794  |
| 62.....                     | .8707                                          | .8717  | .8727  | .8737  | .8747  | .8757  | .8767  | .8777  | .8787  | .8797  |
| 63.....                     | .8710                                          | .8720  | .8730  | .8740  | .8750  | .8760  | .8770  | .8780  | .8790  | .8800  |
| 64.....                     | .8714                                          | .8724  | .8734  | .8744  | .8754  | .8764  | .8774  | .8784  | .8794  | .8804  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.870                                          | 0.871  | 0.872  | 0.873  | 0.874  | 0.875  | 0.876  | 0.877  | 0.878  | 0.879  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                     | 0.8718                                         | 0.8728 | 0.8738 | 0.8748 | 0.8758 | 0.8768 | 0.8778 | 0.8788 | 0.8798 | 0.8808 |
| 66.....                     | .8722                                          | .8732  | .8742  | .8752  | .8762  | .8772  | .8782  | .8792  | .8802  | .8812  |
| 67.....                     | .8726                                          | .8736  | .8746  | .8756  | .8766  | .8775  | .8785  | .8795  | .8805  | .8815  |
| 68.....                     | .8729                                          | .8739  | .8749  | .8759  | .8769  | .8779  | .8789  | .8799  | .8809  | .8819  |
| 69.....                     | .8733                                          | .8743  | .8753  | .8763  | .8773  | .8782  | .8792  | .8802  | .8812  | .8822  |
| 70.....                     | .8737                                          | .8747  | .8757  | .8767  | .8777  | .8786  | .8796  | .8806  | .8816  | .8826  |
| 71.....                     | .8740                                          | .8750  | .8760  | .8770  | .8780  | .8790  | .8800  | .8810  | .8820  | .8830  |
| 72.....                     | .8744                                          | .8754  | .8764  | .8774  | .8784  | .8793  | .8803  | .8813  | .8823  | .8833  |
| 73.....                     | .8748                                          | .8758  | .8768  | .8778  | .8788  | .8797  | .8807  | .8817  | .8827  | .8837  |
| 74.....                     | .8752                                          | .8762  | .8772  | .8782  | .8792  | .8801  | .8811  | .8821  | .8831  | .8841  |
| 75.....                     | .8755                                          | .8765  | .8775  | .8785  | .8795  | .8804  | .8814  | .8824  | .8834  | .8844  |
| 76.....                     | .8758                                          | .8768  | .8778  | .8788  | .8798  | .8808  | .8818  | .8828  | .8838  | .8848  |
| 77.....                     | .8761                                          | .8771  | .8781  | .8791  | .8801  | .8811  | .8821  | .8831  | .8841  | .8851  |
| 78.....                     | .8765                                          | .8775  | .8785  | .8795  | .8805  | .8815  | .8825  | .8835  | .8845  | .8855  |
| 79.....                     | .8769                                          | .8779  | .8789  | .8799  | .8809  | .8819  | .8829  | .8839  | .8849  | .8859  |
| 80.....                     | .8773                                          | .8783  | .8793  | .8803  | .8813  | .8822  | .8832  | .8842  | .8852  | .8862  |
| 81.....                     | .8776                                          | .8786  | .8796  | .8806  | .8816  | .8826  | .8836  | .8846  | .8856  | .8866  |
| 82.....                     | .8780                                          | .8790  | .8800  | .8810  | .8820  | .8830  | .8840  | .8850  | .8860  | .8870  |
| 83.....                     | .8783                                          | .8793  | .8803  | .8813  | .8823  | .8833  | .8843  | .8853  | .8863  | .8873  |
| 84.....                     | .8787                                          | .8797  | .8807  | .8817  | .8827  | .8837  | .8847  | .8857  | .8867  | .8877  |
| 85.....                     | .8790                                          | .8800  | .8810  | .8820  | .8830  | .8840  | .8850  | .8860  | .8870  | .8880  |
| 86.....                     | .8794                                          | .8804  | .8814  | .8824  | .8834  | .8843  | .8853  | .8863  | .8873  | .8883  |
| 87.....                     | .8797                                          | .8807  | .8817  | .8827  | .8837  | .8847  | .8857  | .8867  | .8877  | .8887  |
| 88.....                     | .8801                                          | .8811  | .8821  | .8831  | .8841  | .8850  | .8860  | .8870  | .8880  | .8890  |
| 89.....                     | .8804                                          | .8814  | .8824  | .8834  | .8844  | .8854  | .8864  | .8874  | .8884  | .8894  |
| 90.....                     | .8808                                          | .8818  | .8828  | .8838  | .8848  | .8857  | .8867  | .8877  | .8887  | .8897  |
| 91.....                     | .8812                                          | .8822  | .8832  | .8842  | .8852  | .8861  | .8871  | .8881  | .8891  | .8901  |
| 92.....                     | .8815                                          | .8825  | .8835  | .8845  | .8855  | .8864  | .8874  | .8884  | .8894  | .8904  |
| 93.....                     | .8818                                          | .8828  | .8838  | .8848  | .8858  | .8867  | .8877  | .8887  | .8897  | .8907  |
| 94.....                     | .8822                                          | .8832  | .8842  | .8852  | .8862  | .8871  | .8881  | .8891  | .8901  | .8911  |
| 95.....                     | .8825                                          | .8835  | .8845  | .8855  | .8865  | .8875  | .8885  | .8895  | .8905  | .8915  |
| 96.....                     | .8829                                          | .8839  | .8849  | .8859  | .8869  | .8878  | .8888  | .8898  | .8908  | .8918  |
| 97.....                     | .8832                                          | .8842  | .8852  | .8862  | .8872  | .8882  | .8892  | .8902  | .8912  | .8922  |
| 98.....                     | .8836                                          | .8846  | .8856  | .8866  | .8876  | .8885  | .8895  | .8905  | .8915  | .8925  |
| 99.....                     | .8839                                          | .8849  | .8859  | .8869  | .8879  | .8889  | .8899  | .8909  | .8919  | .8929  |
| 100.....                    | .8843                                          | .8853  | .8863  | .8873  | .8883  | .8892  | .8902  | .8912  | .8922  | .8932  |
| 101.....                    | .8847                                          | .8857  | .8867  | .8877  | .8887  | .8896  | .8906  | .8916  | .8926  | .8936  |
| 102.....                    | .8851                                          | .8861  | .8871  | .8881  | .8891  | .8900  | .8910  | .8920  | .8930  | .8940  |
| 103.....                    | .8854                                          | .8864  | .8874  | .8884  | .8894  | .8903  | .8913  | .8923  | .8933  | .8943  |
| 104.....                    | .8857                                          | .8867  | .8877  | .8887  | .8897  | .8906  | .8916  | .8926  | .8936  | .8946  |
| 105.....                    | .8861                                          | .8871  | .8881  | .8891  | .8901  | .8910  | .8920  | .8930  | .8940  | .8950  |
| 106.....                    | .8864                                          | .8874  | .8884  | .8894  | .8904  | .8914  | .8924  | .8934  | .8944  | .8954  |
| 107.....                    | .8868                                          | .8878  | .8888  | .8898  | .8908  | .8917  | .8927  | .8937  | .8947  | .8957  |
| 108.....                    | .8871                                          | .8881  | .8891  | .8901  | .8911  | .8921  | .8931  | .8941  | .8951  | .8961  |
| 109.....                    | .8875                                          | .8885  | .8895  | .8905  | .8915  | .8924  | .8934  | .8944  | .8954  | .8964  |
| 110.....                    | .8878                                          | .8888  | .8898  | .8908  | .8918  | .8928  | .8938  | .8948  | .8958  | .8968  |
| 111.....                    | .8882                                          | .8892  | .8902  | .8912  | .8922  | .8931  | .8941  | .8951  | .8961  | .8971  |
| 112.....                    | .8885                                          | .8895  | .8905  | .8915  | .8925  | .8935  | .8945  | .8955  | .8965  | .8975  |
| 113.....                    | .8889                                          | .8899  | .8909  | .8919  | .8929  | .8938  | .8948  | .8958  | .8968  | .8978  |
| 114.....                    | .8892                                          | .8902  | .8912  | .8922  | .8932  | .8942  | .8952  | .8962  | .8972  | .8982  |
| 115.....                    | .8895                                          | .8905  | .8915  | .8925  | .8935  | .8945  | .8955  | .8965  | .8975  | .8985  |
| 116.....                    | .8898                                          | .8908  | .8918  | .8928  | .8938  | .8948  | .8958  | .8968  | .8978  | .8988  |
| 117.....                    | .8902                                          | .8912  | .8922  | .8932  | .8942  | .8951  | .8961  | .8971  | .8981  | .8991  |
| 118.....                    | .8905                                          | .8915  | .8925  | .8935  | .8945  | .8955  | .8965  | .8975  | .8985  | .8995  |
| 119.....                    | .8909                                          | .8919  | .8929  | .8939  | .8949  | .8958  | .8968  | .8978  | .8988  | .8998  |
| 120.....                    | .8913                                          | .8923  | .8933  | .8943  | .8953  | .8962  | .8972  | .8982  | .8992  | .9002  |
| 121.....                    | .8916                                          | .8926  | .8936  | .8946  | .8955  | .8966  | .8976  | .8986  | .8996  | .9006  |
| 122.....                    | .8920                                          | .8930  | .8940  | .8950  | .8960  | .8969  | .8979  | .8989  | .8999  | .9009  |
| 123.....                    | .8923                                          | .8933  | .8943  | .8953  | .8963  | .8972  | .8982  | .8992  | .9002  | .9012  |
| 124.....                    | .8927                                          | .8937  | .8947  | .8957  | .8967  | .8976  | .8986  | .8996  | .9006  | .9016  |
| 125.....                    | .8930                                          | .8940  | .8950  | .8960  | .8970  | .8979  | .8989  | .8999  | .9009  | .9019  |
| 126.....                    | .8933                                          | .8943  | .8953  | .8963  | .8973  | .8982  | .8992  | .9002  | .9012  | .9022  |
| 127.....                    | .8937                                          | .8947  | .8957  | .8967  | .8977  | .8986  | .8996  | .9006  | .9016  | .9026  |
| 128.....                    | .8940                                          | .8950  | .8960  | .8970  | .8980  | .8989  | .8999  | .9009  | .9019  | .9029  |
| 129.....                    | .8944                                          | .8954  | .8964  | .8974  | .8984  | .8993  | .9003  | .9013  | .9023  | .9033  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.870                                          | 0.871  | 0.872  | 0.873  | 0.874  | 0.875  | 0.876  | 0.877  | 0.878  | 0.879  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 130.....                    | 0.8948                                         | 0.8958 | 0.8968 | 0.8978 | 0.8988 | 0.8997 | 0.9007 | 0.9017 | 0.9027 | 0.9037 |
| 131.....                    | .8951                                          | .8961  | .8971  | .8981  | .8991  | .9000  | .9010  | .90 0  | .9030  | .9040  |
| 132.....                    | .8954                                          | .8964  | .8974  | .8984  | .8994  | .9003  | .9013  | .9023  | .9033  | .9043  |
| 133.....                    | .8958                                          | .8968  | .8978  | .8988  | .8998  | .9007  | .9017  | .9027  | .9037  | .9047  |
| 134.....                    | .8961                                          | .8971  | .8981  | .8991  | .9001  | .9010  | .9020  | .9030  | .9040  | .9050  |
| 135.....                    | .8964                                          | .8974  | .8984  | .8994  | .9004  | .9013  | .9023  | .9033  | .9043  | .9053  |
| 136.....                    | .8968                                          | .8978  | .8988  | .8998  | .9008  | .9017  | .9027  | .9037  | .9047  | .9057  |
| 137.....                    | .8971                                          | .8981  | .8991  | .9001  | .9011  | .9020  | .9030  | .9040  | .9050  | .9060  |
| 138.....                    | .8975                                          | .8985  | .8995  | .9005  | .9015  | .9024  | .9034  | .9044  | .9054  | .9064  |
| 139.....                    | .8978                                          | .8988  | .8998  | .9008  | .9018  | .9027  | .9037  | .9047  | .9057  | .9067  |
| 140.....                    | .8982                                          | .8992  | .9002  | .9012  | .9022  | .9031  | .9041  | .9051  | .9061  | .9071  |
| 141.....                    | .8985                                          | .8995  | .9005  | .9015  | .9025  | .9034  | .9044  | .9054  | .9064  | .9074  |
| 142.....                    | .8988                                          | .8998  | .9008  | .9018  | .9028  | .9037  | .9047  | .9057  | .9067  | .9077  |
| 143.....                    | .8992                                          | .9002  | .9012  | .9021  | .9031  | .9041  | .9051  | .9061  | .9070  | .9080  |
| 144.....                    | .8995                                          | .9005  | .9015  | .9025  | .9035  | .9044  | .9054  | .9064  | .9074  | .9084  |
| 145.....                    | .8998                                          | .9008  | .9018  | .9028  | .9038  | .9047  | .9057  | .9067  | .9077  | .9087  |
| 146.....                    | .9001                                          | .9011  | .9021  | .9031  | .9041  | .9050  | .9060  | .9070  | .9080  | .9090  |
| 147.....                    | .9005                                          | .9015  | .9025  | .9035  | .9045  | .9054  | .9064  | .9074  | .9084  | .9094  |
| 148.....                    | .9008                                          | .9018  | .9028  | .9038  | .9048  | .9057  | .9067  | .9077  | .9087  | .9097  |
| 149.....                    | .9011                                          | .9021  | .9031  | .9041  | .9051  | .9060  | .9070  | .9080  | .9090  | .9100  |
| 150.....                    | .9014                                          | .9024  | .9034  | .9044  | .9054  | .9063  | .9073  | .9083  | .9093  | .9103  |
| 151.....                    | .9018                                          | .9028  | .9038  | .9048  | .9058  | .9067  | .9077  | .9087  | .9097  | .9107  |
| 152.....                    | .9021                                          | .9031  | .9041  | .9051  | .9061  | .9070  | .9080  | .9090  | .9100  | .9110  |
| 153.....                    | .9024                                          | .9034  | .9044  | .9054  | .9064  | .9073  | .9083  | .9093  | .9103  | .9113  |
| 154.....                    | .9028                                          | .9038  | .9048  | .9058  | .9068  | .9077  | .9087  | .9097  | .9107  | .9117  |
| 155.....                    | .9031                                          | .9041  | .9051  | .9061  | .9071  | .9080  | .9090  | .9100  | .9110  | .9120  |
| 156.....                    | .9035                                          | .9045  | .9055  | .9064  | .9074  | .9084  | .9094  | .9104  | .9113  | .9123  |
| 157.....                    | .9039                                          | .9049  | .9059  | .9068  | .9078  | .9088  | .9098  | .9108  | .9117  | .9127  |
| 158.....                    | .9042                                          | .9052  | .9062  | .9072  | .9082  | .9091  | .9101  | .9111  | .9121  | .9131  |
| 159.....                    | .9046                                          | .9056  | .9066  | .9075  | .9085  | .9095  | .9105  | .9115  | .9124  | .9134  |
| 160.....                    | .9049                                          | .9059  | .9069  | .9079  | .9089  | .9098  | .9108  | .9118  | .9128  | .9138  |
| 161.....                    | .9052                                          | .9062  | .9072  | .9082  | .9092  | .9101  | .9111  | .9121  | .9131  | .9141  |
| 162.....                    | .9055                                          | .9065  | .9075  | .9085  | .9095  | .9104  | .9114  | .9124  | .9134  | .9144  |
| 163.....                    | .9059                                          | .9069  | .9079  | .9089  | .9099  | .9108  | .9118  | .9128  | .9138  | .9148  |
| 164.....                    | .9062                                          | .9072  | .9082  | .9092  | .9102  | .9111  | .9121  | .9131  | .9141  | .9151  |
| 165.....                    | .9066                                          | .9076  | .9086  | .9096  | .9106  | .9115  | .9125  | .9135  | .9145  | .9155  |
| 166.....                    | .9070                                          | .9080  | .9090  | .9099  | .9109  | .9119  | .9129  | .9139  | .9148  | .9158  |
| 167.....                    | .9074                                          | .9084  | .9094  | .9103  | .9113  | .9123  | .9133  | .9143  | .9152  | .9162  |
| 168.....                    | .9077                                          | .9087  | .9097  | .9106  | .9116  | .9126  | .9136  | .9146  | .9155  | .9165  |
| 169.....                    | .9080                                          | .9090  | .9100  | .9110  | .9120  | .9129  | .9139  | .9149  | .9159  | .9169  |
| 170.....                    | .9083                                          | .9093  | .9103  | .9113  | .9123  | .9132  | .9142  | .9152  | .9162  | .9172  |
| 171.....                    | .9086                                          | .9096  | .9106  | .9116  | .9126  | .9135  | .9145  | .9155  | .9165  | .9175  |
| 172.....                    | .9090                                          | .9100  | .9110  | .9120  | .9130  | .9139  | .9149  | .9159  | .9169  | .9179  |
| 173.....                    | .9094                                          | .9104  | .9114  | .9123  | .9133  | .9143  | .9153  | .9163  | .9172  | .9182  |
| 174.....                    | .9097                                          | .9107  | .9117  | .9127  | .9137  | .9146  | .9156  | .9166  | .9176  | .9186  |
| 175.....                    | .9101                                          | .9111  | .9121  | .9130  | .9140  | .9150  | .9160  | .9170  | .9179  | .9189  |
| 176.....                    | .9104                                          | .9114  | .9124  | .9133  | .9143  | .9153  | .9163  | .9173  | .9182  | .9192  |
| 177.....                    | .9108                                          | .9118  | .9128  | .9137  | .9147  | .9157  | .9167  | .9177  | .9186  | .9196  |
| 178.....                    | .9111                                          | .9121  | .9131  | .9140  | .9150  | .9160  | .9170  | .9180  | .9189  | .9199  |
| 179.....                    | .9114                                          | .9124  | .9134  | .9143  | .9153  | .9163  | .9173  | .9183  | .9192  | .9202  |
| 180.....                    | .9117                                          | .9127  | .9137  | .9147  | .9157  | .9166  | .9176  | .9186  | .9196  | .9206  |
| 181.....                    | .9121                                          | .9131  | .9141  | .9150  | .9160  | .9170  | .9180  | .9190  | .9199  | .9209  |
| 182.....                    | .9124                                          | .9134  | .9144  | .9153  | .9163  | .9173  | .9183  | .9193  | .9202  | .9212  |
| 183.....                    | .9127                                          | .9137  | .9147  | .9156  | .9166  | .9176  | .9186  | .9196  | .9205  | .9215  |
| 184.....                    | .9130                                          | .9140  | .9150  | .9159  | .9169  | .9179  | .9189  | .9199  | .9208  | .9218  |
| 185.....                    | .9133                                          | .9143  | .9153  | .9162  | .9172  | .9182  | .9192  | .9202  | .9211  | .9221  |
| 186.....                    | .9137                                          | .9147  | .9157  | .9166  | .9176  | .9186  | .9196  | .9206  | .9215  | .9225  |
| 187.....                    | .9140                                          | .9150  | .9160  | .9169  | .9179  | .9189  | .9199  | .9209  | .9218  | .9228  |
| 188.....                    | .9144                                          | .9154  | .9164  | .9173  | .9183  | .9193  | .9203  | .9213  | .9222  | .9232  |
| 189.....                    | .9147                                          | .9157  | .9167  | .9176  | .9186  | .9196  | .9206  | .9216  | .9225  | .9235  |
| 190.....                    | .9150                                          | .9160  | .9170  | .9179  | .9189  | .9199  | .9209  | .9219  | .9228  | .9238  |
| 191.....                    | .9154                                          | .9164  | .9174  | .9183  | .9193  | .9203  | .9213  | .9223  | .9232  | .9242  |
| 192.....                    | .9157                                          | .9167  | .9177  | .9186  | .9196  | .9206  | .9216  | .9226  | .9235  | .9245  |
| 193.....                    | .9160                                          | .9170  | .9180  | .9189  | .9199  | .9209  | .9219  | .9229  | .9238  | .9248  |
| 194.....                    | .9164                                          | .9174  | .9184  | .9193  | .9203  | .9213  | .9223  | .9233  | .9242  | .9252  |
| 195.....                    | .9167                                          | .9177  | .9187  | .9196  | .9206  | .9216  | .9226  | .9236  | .9245  | .9255  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.880                                          | 0.881  | 0.882  | 0.883  | 0.884  | 0.885  | 0.886  | 0.887  | 0.888  | 0.889  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.8578                                         | 0.8588 | 0.8598 | 0.8608 | 0.8618 | 0.8629 | 0.8639 | 0.8649 | 0.8659 | 0.8669 |
| 1.....                      | .8582                                          | .8592  | .8602  | .8612  | .8622  | .8633  | .8643  | .8653  | .8663  | .8673  |
| 2.....                      | .8586                                          | .8596  | .8606  | .8617  | .8627  | .8637  | .8647  | .8657  | .8668  | .8678  |
| 3.....                      | .8590                                          | .8600  | .8610  | .8621  | .8631  | .8641  | .8651  | .8661  | .8672  | .8682  |
| 4.....                      | .8594                                          | .8604  | .8614  | .8625  | .8635  | .8645  | .8655  | .8665  | .8676  | .8686  |
| 5.....                      | .8598                                          | .8608  | .8618  | .8629  | .8639  | .8649  | .8659  | .8669  | .8680  | .8690  |
| 6.....                      | .8602                                          | .8612  | .8622  | .8632  | .8642  | .8653  | .8663  | .8673  | .8683  | .8693  |
| 7.....                      | .8606                                          | .8616  | .8626  | .8636  | .8646  | .8657  | .8667  | .8677  | .8687  | .8697  |
| 8.....                      | .8609                                          | .8619  | .8629  | .8639  | .8649  | .8660  | .8670  | .8680  | .8690  | .8700  |
| 9.....                      | .8613                                          | .8623  | .8633  | .8643  | .8653  | .8664  | .8674  | .8684  | .8694  | .8704  |
| 10.....                     | .8617                                          | .8627  | .8637  | .8647  | .8657  | .8668  | .8678  | .8688  | .8698  | .8708  |
| 11.....                     | .8621                                          | .8631  | .8641  | .8651  | .8661  | .8672  | .8682  | .8692  | .8702  | .8712  |
| 12.....                     | .8624                                          | .8634  | .8644  | .8654  | .8664  | .8675  | .8685  | .8695  | .8705  | .8715  |
| 13.....                     | .8628                                          | .8638  | .8648  | .8658  | .8668  | .8679  | .8689  | .8699  | .8709  | .8719  |
| 14.....                     | .8632                                          | .8642  | .8652  | .8662  | .8672  | .8683  | .8693  | .8703  | .8713  | .8723  |
| 15.....                     | .8636                                          | .8646  | .8656  | .8666  | .8676  | .8687  | .8697  | .8707  | .8717  | .8727  |
| 16.....                     | .8640                                          | .8650  | .8660  | .8670  | .8680  | .8691  | .8701  | .8711  | .8721  | .8731  |
| 17.....                     | .8643                                          | .8653  | .8663  | .8673  | .8683  | .8694  | .8704  | .8714  | .8724  | .8734  |
| 18.....                     | .8647                                          | .8657  | .8667  | .8677  | .8687  | .8698  | .8708  | .8718  | .8728  | .8738  |
| 19.....                     | .8651                                          | .8661  | .8671  | .8681  | .8691  | .8702  | .8712  | .8722  | .8732  | .8742  |
| 20.....                     | .8654                                          | .8664  | .8674  | .8684  | .8694  | .8705  | .8715  | .8725  | .8735  | .8745  |
| 21.....                     | .8658                                          | .8668  | .8678  | .8688  | .8698  | .8709  | .8719  | .8729  | .8739  | .8749  |
| 22.....                     | .8661                                          | .8671  | .8681  | .8691  | .8701  | .8712  | .8722  | .8732  | .8742  | .8752  |
| 23.....                     | .8665                                          | .8675  | .8685  | .8695  | .8705  | .8716  | .8726  | .8736  | .8746  | .8756  |
| 24.....                     | .8669                                          | .8679  | .8689  | .8699  | .8709  | .8720  | .8730  | .8740  | .8750  | .8760  |
| 25.....                     | .8672                                          | .8682  | .8692  | .8702  | .8712  | .8723  | .8733  | .8743  | .8753  | .8763  |
| 26.....                     | .8676                                          | .8686  | .8696  | .8706  | .8716  | .8727  | .8737  | .8747  | .8757  | .8767  |
| 27.....                     | .8680                                          | .8690  | .8700  | .8710  | .8720  | .8731  | .8741  | .8751  | .8761  | .8771  |
| 28.....                     | .8684                                          | .8694  | .8704  | .8714  | .8724  | .8735  | .8745  | .8755  | .8765  | .8775  |
| 29.....                     | .8687                                          | .8697  | .8707  | .8717  | .8727  | .8738  | .8748  | .8758  | .8768  | .8778  |
| 30.....                     | .8691                                          | .8701  | .8711  | .8721  | .8731  | .8742  | .8752  | .8762  | .8772  | .8782  |
| 31.....                     | .8695                                          | .8705  | .8715  | .8725  | .8735  | .8745  | .8755  | .8765  | .8775  | .8785  |
| 32.....                     | .8698                                          | .8708  | .8718  | .8728  | .8738  | .8749  | .8759  | .8769  | .8779  | .8789  |
| 33.....                     | .8702                                          | .8712  | .8722  | .8732  | .8742  | .8753  | .8763  | .8773  | .8783  | .8793  |
| 34.....                     | .8706                                          | .8716  | .8726  | .8736  | .8746  | .8756  | .8766  | .8776  | .8786  | .8796  |
| 35.....                     | .8710                                          | .8720  | .8730  | .8740  | .8750  | .8760  | .8770  | .8780  | .8790  | .8800  |
| 36.....                     | .8713                                          | .8723  | .8733  | .8743  | .8753  | .8764  | .8774  | .8784  | .8794  | .8804  |
| 37.....                     | .8717                                          | .8727  | .8737  | .8747  | .8757  | .8767  | .8777  | .8787  | .8797  | .8807  |
| 38.....                     | .8721                                          | .8731  | .8741  | .8751  | .8761  | .8771  | .8781  | .8791  | .8801  | .8811  |
| 39.....                     | .8724                                          | .8734  | .8744  | .8754  | .8764  | .8775  | .8785  | .8795  | .8805  | .8815  |
| 40.....                     | .8728                                          | .8738  | .8748  | .8758  | .8768  | .8778  | .8788  | .8798  | .8808  | .8818  |
| 41.....                     | .8731                                          | .8741  | .8751  | .8761  | .8771  | .8782  | .8792  | .8802  | .8812  | .8822  |
| 42.....                     | .8735                                          | .8745  | .8755  | .8765  | .8775  | .8785  | .8795  | .8805  | .8815  | .8825  |
| 43.....                     | .8739                                          | .8749  | .8759  | .8769  | .8779  | .8789  | .8799  | .8809  | .8819  | .8829  |
| 44.....                     | .8743                                          | .8753  | .8763  | .8773  | .8783  | .8793  | .8803  | .8813  | .8823  | .8833  |
| 45.....                     | .8747                                          | .8757  | .8767  | .8777  | .8787  | .8797  | .8807  | .8817  | .8827  | .8837  |
| 46.....                     | .8750                                          | .8760  | .8770  | .8780  | .8790  | .8800  | .8810  | .8820  | .8830  | .8840  |
| 47.....                     | .8754                                          | .8764  | .8774  | .8784  | .8794  | .8804  | .8814  | .8824  | .8834  | .8844  |
| 48.....                     | .8757                                          | .8767  | .8777  | .8787  | .8797  | .8807  | .8817  | .8827  | .8837  | .8847  |
| 49.....                     | .8761                                          | .8771  | .8781  | .8791  | .8801  | .8811  | .8821  | .8831  | .8841  | .8851  |
| 50.....                     | .8764                                          | .8774  | .8784  | .8794  | .8804  | .8814  | .8824  | .8834  | .8844  | .8854  |
| 51.....                     | .8768                                          | .8778  | .8788  | .8798  | .8808  | .8818  | .8828  | .8838  | .8848  | .8858  |
| 52.....                     | .8772                                          | .8782  | .8792  | .8802  | .8812  | .8822  | .8832  | .8842  | .8852  | .8862  |
| 53.....                     | .8775                                          | .8785  | .8795  | .8805  | .8815  | .8825  | .8835  | .8845  | .8855  | .8865  |
| 54.....                     | .8779                                          | .8789  | .8799  | .8809  | .8819  | .8829  | .8839  | .8849  | .8859  | .8869  |
| 55.....                     | .8782                                          | .8792  | .8802  | .8812  | .8822  | .8832  | .8842  | .8852  | .8862  | .8872  |
| 56.....                     | .8786                                          | .8796  | .8806  | .8816  | .8826  | .8836  | .8846  | .8856  | .8866  | .8876  |
| 57.....                     | .8790                                          | .8800  | .8810  | .8820  | .8830  | .8840  | .8850  | .8860  | .8870  | .8880  |
| 58.....                     | .8793                                          | .8803  | .8813  | .8823  | .8833  | .8843  | .8853  | .8863  | .8873  | .8883  |
| 59.....                     | .8797                                          | .8807  | .8817  | .8827  | .8837  | .8847  | .8857  | .8867  | .8877  | .8887  |
| 60.....                     | .8800                                          | .8810  | .8820  | .8830  | .8840  | .8850  | .8860  | .8870  | .8880  | .8890  |
| 61.....                     | .8804                                          | .8814  | .8824  | .8834  | .8844  | .8854  | .8864  | .8874  | .8884  | .8894  |
| 62.....                     | .8807                                          | .8817  | .8827  | .8837  | .8847  | .8857  | .8867  | .8877  | .8887  | .8897  |
| 63.....                     | .8810                                          | .8820  | .8830  | .8840  | .8850  | .8860  | .8870  | .8880  | .8890  | .8900  |
| 64.....                     | .8814                                          | .8824  | .8834  | .8844  | .8854  | .8864  | .8874  | .8884  | .8894  | .8904  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.880                                          | 0.881  | 0.882  | 0.883  | 0.884  | 0.885  | 0.886  | 0.887  | 0.888  | 0.889  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                     | 0.8818                                         | 0.8828 | 0.8838 | 0.8848 | 0.8858 | 0.8868 | 0.8878 | 0.8888 | 0.8898 | 0.8908 |
| 66.....                     | .8822                                          | .8832  | .8842  | .8852  | .8862  | .8872  | .8882  | .8892  | .8902  | .8912  |
| 67.....                     | .8825                                          | .8835  | .8845  | .8855  | .8865  | .8875  | .8885  | .8895  | .8905  | .8915  |
| 68.....                     | .8829                                          | .8839  | .8849  | .8859  | .8869  | .8879  | .8889  | .8899  | .8909  | .8919  |
| 69.....                     | .8832                                          | .8842  | .8852  | .8862  | .8872  | .8882  | .8892  | .8902  | .8912  | .8922  |
| 70.....                     | .8836                                          | .8846  | .8856  | .8866  | .8876  | .8886  | .8896  | .8906  | .8916  | .8926  |
| 71.....                     | .8840                                          | .8850  | .8860  | .8870  | .8880  | .8890  | .8900  | .8910  | .8920  | .8930  |
| 72.....                     | .8843                                          | .8853  | .8863  | .8873  | .8883  | .8893  | .8903  | .8913  | .8923  | .8933  |
| 73.....                     | .8847                                          | .8857  | .8867  | .8877  | .8887  | .8897  | .8907  | .8917  | .8927  | .8937  |
| 74.....                     | .8851                                          | .8861  | .8871  | .8881  | .8891  | .8900  | .8910  | .8920  | .8930  | .8940  |
| 75.....                     | .8854                                          | .8864  | .8874  | .8884  | .8894  | .8904  | .8914  | .8924  | .8934  | .8944  |
| 76.....                     | .8858                                          | .8868  | .8878  | .8888  | .8898  | .8908  | .8918  | .8928  | .8938  | .8948  |
| 77.....                     | .8861                                          | .8871  | .8881  | .8891  | .8901  | .8911  | .8921  | .8931  | .8941  | .8951  |
| 78.....                     | .8865                                          | .8875  | .8885  | .8895  | .8905  | .8915  | .8925  | .8935  | .8945  | .8955  |
| 79.....                     | .8869                                          | .8879  | .8889  | .8899  | .8909  | .8918  | .8928  | .8938  | .8948  | .8958  |
| 80.....                     | .8872                                          | .8882  | .8892  | .8902  | .8912  | .8922  | .8932  | .8942  | .8952  | .8962  |
| 81.....                     | .8876                                          | .8886  | .8896  | .8906  | .8916  | .8925  | .8935  | .8945  | .8955  | .8965  |
| 82.....                     | .8880                                          | .8890  | .8900  | .8910  | .8920  | .8929  | .8939  | .8949  | .8959  | .8969  |
| 83.....                     | .8883                                          | .8893  | .8903  | .8913  | .8923  | .8933  | .8943  | .8953  | .8963  | .8973  |
| 84.....                     | .8887                                          | .8897  | .8907  | .8917  | .8927  | .8936  | .8946  | .8956  | .8966  | .8976  |
| 85.....                     | .8890                                          | .8900  | .8910  | .8920  | .8930  | .8940  | .8950  | .8960  | .8970  | .8980  |
| 86.....                     | .8893                                          | .8903  | .8913  | .8923  | .8933  | .8943  | .8953  | .8963  | .8973  | .8983  |
| 87.....                     | .8897                                          | .8907  | .8917  | .8927  | .8937  | .8947  | .8957  | .8967  | .8977  | .8987  |
| 88.....                     | .8900                                          | .8910  | .8920  | .8930  | .8940  | .8950  | .8960  | .8970  | .8980  | .8990  |
| 89.....                     | .8904                                          | .8914  | .8924  | .8934  | .8944  | .8954  | .8964  | .8974  | .8984  | .8994  |
| 90.....                     | .8907                                          | .8917  | .8927  | .8937  | .8947  | .8957  | .8967  | .8977  | .8987  | .8997  |
| 91.....                     | .8911                                          | .8921  | .8931  | .8941  | .8951  | .8961  | .8971  | .8981  | .8991  | .9001  |
| 92.....                     | .8914                                          | .8924  | .8934  | .8944  | .8954  | .8964  | .8974  | .8984  | .8994  | .9004  |
| 93.....                     | .8917                                          | .8927  | .8937  | .8947  | .8957  | .8967  | .8977  | .8987  | .8997  | .9007  |
| 94.....                     | .8921                                          | .8931  | .8941  | .8951  | .8961  | .8970  | .8980  | .8990  | .9000  | .9010  |
| 95.....                     | .8925                                          | .8935  | .8945  | .8955  | .8965  | .8974  | .8984  | .8994  | .9004  | .9014  |
| 96.....                     | .8928                                          | .8938  | .8948  | .8958  | .8968  | .8977  | .8987  | .8997  | .9007  | .9017  |
| 97.....                     | .8932                                          | .8942  | .8952  | .8962  | .8972  | .8981  | .8991  | .9001  | .9011  | .9021  |
| 98.....                     | .8935                                          | .8945  | .8955  | .8965  | .8975  | .8985  | .8995  | .9005  | .9015  | .9025  |
| 99.....                     | .8939                                          | .8949  | .8959  | .8969  | .8979  | .8988  | .8998  | .9008  | .9018  | .9028  |
| 100.....                    | .8942                                          | .8952  | .8962  | .8972  | .8982  | .8992  | .9002  | .9012  | .9022  | .9032  |
| 101.....                    | .8946                                          | .8956  | .8966  | .8976  | .8986  | .8995  | .9005  | .9015  | .9025  | .9035  |
| 102.....                    | .8950                                          | .8960  | .8970  | .8980  | .8990  | .8999  | .9009  | .9019  | .9029  | .9039  |
| 103.....                    | .8953                                          | .8963  | .8973  | .8983  | .8993  | .9002  | .9012  | .9022  | .9032  | .9042  |
| 104.....                    | .8956                                          | .8966  | .8976  | .8986  | .8996  | .9006  | .9016  | .9026  | .9036  | .9046  |
| 105.....                    | .8960                                          | .8970  | .8980  | .8990  | .9000  | .9010  | .9020  | .9030  | .9040  | .9050  |
| 106.....                    | .8964                                          | .8974  | .8984  | .8994  | .9004  | .9013  | .9023  | .9033  | .9043  | .9053  |
| 107.....                    | .8967                                          | .8977  | .8987  | .8997  | .9007  | .9017  | .9027  | .9037  | .9047  | .9057  |
| 108.....                    | .8971                                          | .8981  | .8991  | .9001  | .9011  | .9020  | .9030  | .9040  | .9050  | .9060  |
| 109.....                    | .8974                                          | .8984  | .8994  | .9004  | .9014  | .9024  | .9034  | .9044  | .9054  | .9064  |
| 110.....                    | .8978                                          | .8988  | .8998  | .9008  | .9018  | .9027  | .9037  | .9047  | .9057  | .9067  |
| 111.....                    | .8981                                          | .8991  | .9001  | .9011  | .9021  | .9030  | .9040  | .9050  | .9060  | .9070  |
| 112.....                    | .8985                                          | .8995  | .9005  | .9015  | .9025  | .9034  | .9044  | .9054  | .9064  | .9074  |
| 113.....                    | .8988                                          | .8998  | .9008  | .9018  | .9028  | .9037  | .9047  | .9057  | .9067  | .9077  |
| 114.....                    | .8992                                          | .9002  | .9012  | .9022  | .9032  | .9041  | .9051  | .9061  | .9071  | .9081  |
| 115.....                    | .8995                                          | .9005  | .9015  | .9025  | .9035  | .9044  | .9054  | .9064  | .9074  | .9084  |
| 116.....                    | .8998                                          | .9008  | .9018  | .9028  | .9038  | .9047  | .9057  | .9067  | .9077  | .9087  |
| 117.....                    | .9001                                          | .9011  | .9021  | .9031  | .9041  | .9050  | .9060  | .9070  | .9080  | .9090  |
| 118.....                    | .9005                                          | .9015  | .9025  | .9035  | .9045  | .9054  | .9064  | .9074  | .9084  | .9094  |
| 119.....                    | .9008                                          | .9018  | .9028  | .9038  | .9048  | .9057  | .9067  | .9077  | .9087  | .9097  |
| 120.....                    | .9012                                          | .9022  | .9032  | .9042  | .9052  | .9061  | .9071  | .9081  | .9091  | .9101  |
| 121.....                    | .9016                                          | .9026  | .9036  | .9046  | .9056  | .9065  | .9075  | .9085  | .9095  | .9105  |
| 122.....                    | .9019                                          | .9029  | .9039  | .9049  | .9059  | .9068  | .9078  | .9088  | .9098  | .9108  |
| 123.....                    | .9022                                          | .9032  | .9042  | .9052  | .9062  | .9071  | .9081  | .9091  | .9101  | .9111  |
| 124.....                    | .9026                                          | .9036  | .9046  | .9056  | .9066  | .9075  | .9085  | .9095  | .9105  | .9115  |
| 125.....                    | .9029                                          | .9039  | .9049  | .9059  | .9069  | .9078  | .9088  | .9098  | .9108  | .9118  |
| 126.....                    | .9032                                          | .9042  | .9052  | .9062  | .9072  | .9081  | .9091  | .9101  | .9111  | .9121  |
| 127.....                    | .9036                                          | .9046  | .9056  | .9066  | .9076  | .9085  | .9095  | .9105  | .9115  | .9125  |
| 128.....                    | .9039                                          | .9049  | .9059  | .9069  | .9079  | .9088  | .9098  | .9108  | .9118  | .9128  |
| 129.....                    | .9043                                          | .9053  | .9063  | .9073  | .9083  | .9092  | .9102  | .9112  | .9122  | .9132  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in ° F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 0.880                                          | 0.881  | 0.882  | 0.883  | 0.884  | 0.885  | 0.886  | 0.887  | 0.888  | 0.889  |
|                              | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 130.....                     | 0.9047                                         | 0.9057 | 0.9067 | 0.9077 | 0.9087 | 0.9096 | 0.9106 | 0.9116 | 0.9126 | 0.9136 |
| 131.....                     | .9050                                          | .9060  | .9070  | .9080  | .9090  | .9099  | .9109  | .9119  | .9129  | .9139  |
| 132.....                     | .9053                                          | .9063  | .9073  | .9083  | .9093  | .9102  | .9112  | .9122  | .9132  | .9142  |
| 133.....                     | .9057                                          | .9067  | .9077  | .9087  | .9097  | .9106  | .9116  | .9126  | .9136  | .9146  |
| 134.....                     | .9060                                          | .9070  | .9080  | .9090  | .9100  | .9109  | .9119  | .9129  | .9139  | .9149  |
| 135.....                     | .9063                                          | .9073  | .9083  | .9093  | .9103  | .9112  | .9122  | .9132  | .9142  | .9152  |
| 136.....                     | .9067                                          | .9077  | .9087  | .9097  | .9107  | .9116  | .9126  | .9136  | .9146  | .9156  |
| 137.....                     | .9070                                          | .9080  | .9090  | .9100  | .9110  | .9119  | .9129  | .9139  | .9149  | .9159  |
| 138.....                     | .9074                                          | .9084  | .9094  | .9104  | .9114  | .9123  | .9133  | .9143  | .9153  | .9163  |
| 139.....                     | .9077                                          | .9087  | .9097  | .9107  | .9117  | .9126  | .9136  | .9146  | .9156  | .9166  |
| 140.....                     | .9081                                          | .9091  | .9101  | .9111  | .9121  | .9130  | .9140  | .9150  | .9160  | .9170  |
| 141.....                     | .9084                                          | .9094  | .9104  | .9114  | .9124  | .9133  | .9143  | .9153  | .9163  | .9173  |
| 142.....                     | .9087                                          | .9097  | .9107  | .9117  | .9127  | .9136  | .9146  | .9156  | .9166  | .9176  |
| 143.....                     | .9090                                          | .9100  | .9110  | .9120  | .9130  | .9139  | .9149  | .9159  | .9169  | .9179  |
| 144.....                     | .9094                                          | .9104  | .9114  | .9124  | .9134  | .9143  | .9153  | .9163  | .9173  | .9183  |
| 145.....                     | .9097                                          | .9107  | .9117  | .9127  | .9137  | .9146  | .9156  | .9166  | .9176  | .9186  |
| 146.....                     | .9100                                          | .9110  | .9120  | .9130  | .9140  | .9149  | .9159  | .9169  | .9179  | .9189  |
| 147.....                     | .9104                                          | .9114  | .9124  | .9134  | .9144  | .9153  | .9163  | .9173  | .9183  | .9193  |
| 148.....                     | .9107                                          | .9117  | .9127  | .9137  | .9147  | .9156  | .9166  | .9176  | .9186  | .9196  |
| 149.....                     | .9110                                          | .9120  | .9130  | .9140  | .9150  | .9159  | .9169  | .9179  | .9189  | .9199  |
| 150.....                     | .9113                                          | .9123  | .9133  | .9143  | .9153  | .9162  | .9172  | .9182  | .9192  | .9202  |
| 151.....                     | .9117                                          | .9127  | .9137  | .9147  | .9157  | .9166  | .9176  | .9186  | .9196  | .9206  |
| 152.....                     | .9120                                          | .9130  | .9140  | .9150  | .9160  | .9169  | .9179  | .9189  | .9199  | .9209  |
| 153.....                     | .9123                                          | .9133  | .9143  | .9153  | .9163  | .9172  | .9182  | .9192  | .9202  | .9212  |
| 154.....                     | .9127                                          | .9137  | .9147  | .9157  | .9167  | .9176  | .9186  | .9196  | .9206  | .9216  |
| 155.....                     | .9130                                          | .9140  | .9150  | .9160  | .9170  | .9179  | .9189  | .9199  | .9209  | .9219  |
| 156.....                     | .9133                                          | .9143  | .9153  | .9163  | .9173  | .9182  | .9192  | .9202  | .9212  | .9222  |
| 157.....                     | .9137                                          | .9147  | .9157  | .9167  | .9177  | .9186  | .9196  | .9206  | .9216  | .9226  |
| 158.....                     | .9141                                          | .9151  | .9161  | .9171  | .9181  | .9190  | .9200  | .9210  | .9220  | .9230  |
| 159.....                     | .9144                                          | .9154  | .9164  | .9174  | .9184  | .9193  | .9203  | .9213  | .9223  | .9233  |
| 160.....                     | .9148                                          | .9158  | .9168  | .9178  | .9188  | .9197  | .9207  | .9217  | .9227  | .9237  |
| 161.....                     | .9151                                          | .9161  | .9171  | .9181  | .9191  | .9200  | .9210  | .9220  | .9230  | .9240  |
| 162.....                     | .9154                                          | .9164  | .9174  | .9184  | .9194  | .9203  | .9213  | .9223  | .9233  | .9243  |
| 163.....                     | .9158                                          | .9168  | .9178  | .9188  | .9198  | .9207  | .9217  | .9227  | .9237  | .9247  |
| 164.....                     | .9161                                          | .9171  | .9181  | .9191  | .9201  | .9210  | .9220  | .9230  | .9240  | .9250  |
| 165.....                     | .9165                                          | .9175  | .9185  | .9195  | .9205  | .9214  | .9224  | .9234  | .9244  | .9254  |
| 166.....                     | .9168                                          | .9178  | .9188  | .9198  | .9208  | .9217  | .9227  | .9237  | .9247  | .9257  |
| 167.....                     | .9172                                          | .9182  | .9192  | .9202  | .9212  | .9221  | .9231  | .9241  | .9251  | .9261  |
| 168.....                     | .9175                                          | .9185  | .9195  | .9205  | .9215  | .9224  | .9234  | .9244  | .9254  | .9264  |
| 169.....                     | .9179                                          | .9189  | .9199  | .9209  | .9219  | .9228  | .9238  | .9248  | .9258  | .9268  |
| 170.....                     | .9182                                          | .9192  | .9202  | .9212  | .9222  | .9231  | .9241  | .9251  | .9261  | .9271  |
| 171.....                     | .9185                                          | .9195  | .9205  | .9215  | .9225  | .9234  | .9244  | .9254  | .9264  | .9274  |
| 172.....                     | .9189                                          | .9199  | .9209  | .9218  | .9228  | .9238  | .9248  | .9258  | .9267  | .9277  |
| 173.....                     | .9192                                          | .9202  | .9212  | .9221  | .9231  | .9241  | .9251  | .9261  | .9270  | .9280  |
| 174.....                     | .9196                                          | .9206  | .9216  | .9225  | .9235  | .9245  | .9255  | .9265  | .9274  | .9284  |
| 175.....                     | .9199                                          | .9209  | .9219  | .9229  | .9239  | .9248  | .9258  | .9268  | .9278  | .9288  |
| 176.....                     | .9202                                          | .9212  | .9222  | .9232  | .9242  | .9251  | .9261  | .9271  | .9281  | .9291  |
| 177.....                     | .9206                                          | .9216  | .9226  | .9236  | .9246  | .9255  | .9265  | .9275  | .9285  | .9295  |
| 178.....                     | .9209                                          | .9219  | .9229  | .9239  | .9249  | .9258  | .9268  | .9278  | .9288  | .9298  |
| 179.....                     | .9212                                          | .9222  | .9232  | .9242  | .9252  | .9261  | .9271  | .9281  | .9291  | .9301  |
| 180.....                     | .9216                                          | .9226  | .9236  | .9246  | .9256  | .9265  | .9275  | .9285  | .9295  | .9305  |
| 181.....                     | .9219                                          | .9229  | .9239  | .9249  | .9259  | .9268  | .9278  | .9288  | .9298  | .9308  |
| 182.....                     | .9222                                          | .9232  | .9242  | .9252  | .9262  | .9271  | .9281  | .9291  | .9301  | .9311  |
| 183.....                     | .9225                                          | .9235  | .9245  | .9255  | .9265  | .9274  | .9284  | .9294  | .9304  | .9314  |
| 184.....                     | .9228                                          | .9238  | .9248  | .9258  | .9268  | .9277  | .9287  | .9297  | .9307  | .9317  |
| 185.....                     | .9231                                          | .9241  | .9251  | .9261  | .9271  | .9280  | .9290  | .9300  | .9310  | .9320  |
| 186.....                     | .9235                                          | .9245  | .9255  | .9264  | .9274  | .9284  | .9294  | .9304  | .9313  | .9323  |
| 187.....                     | .9238                                          | .9248  | .9258  | .9267  | .9277  | .9287  | .9297  | .9307  | .9316  | .9326  |
| 188.....                     | .9242                                          | .9252  | .9262  | .9271  | .9281  | .9291  | .9301  | .9311  | .9320  | .9330  |
| 189.....                     | .9245                                          | .9255  | .9265  | .9274  | .9284  | .9294  | .9304  | .9314  | .9323  | .9333  |
| 190.....                     | .9248                                          | .9258  | .9268  | .9277  | .9287  | .9297  | .9307  | .9317  | .9326  | .9336  |
| 191.....                     | .9252                                          | .9262  | .9272  | .9281  | .9291  | .9301  | .9311  | .9321  | .9330  | .9340  |
| 192.....                     | .9255                                          | .9265  | .9275  | .9284  | .9294  | .9304  | .9314  | .9324  | .9333  | .9343  |
| 193.....                     | .9258                                          | .9268  | .9278  | .9287  | .9297  | .9307  | .9317  | .9327  | .9336  | .9346  |
| 194.....                     | .9262                                          | .9272  | .9282  | .9291  | .9301  | .9311  | .9321  | .9331  | .9340  | .9350  |
| 195.....                     | .9265                                          | .9275  | .9285  | .9294  | .9304  | .9314  | .9324  | .9334  | .9343  | .9353  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.890                                          | 0.891  | 0.892  | 0.893  | 0.894  | 0.895  | 0.896  | 0.897  | 0.898  | 0.899  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.8679                                         | 0.8689 | 0.8699 | 0.8709 | 0.8719 | 0.8730 | 0.8740 | 0.8750 | 0.8760 | 0.8770 |
| 1.....                      | .8683                                          | .8693  | .8703  | .8713  | .8723  | .8734  | .8744  | .8754  | .8764  | .8774  |
| 2.....                      | .8688                                          | .8698  | .8708  | .8718  | .8728  | .8739  | .8749  | .8759  | .8769  | .8779  |
| 3.....                      | .8692                                          | .8702  | .8712  | .8722  | .8732  | .8743  | .8753  | .8763  | .8773  | .8783  |
| 4.....                      | .8696                                          | .8706  | .8716  | .8726  | .8736  | .8747  | .8757  | .8767  | .8777  | .8787  |
| 5.....                      | .8700                                          | .8710  | .8720  | .8730  | .8740  | .8751  | .8761  | .8771  | .8781  | .8791  |
| 6.....                      | .8703                                          | .8713  | .8723  | .8733  | .8743  | .8754  | .8764  | .8774  | .8784  | .8794  |
| 7.....                      | .8707                                          | .8717  | .8727  | .8737  | .8747  | .8758  | .8768  | .8778  | .8788  | .8798  |
| 8.....                      | .8710                                          | .8720  | .8730  | .8740  | .8750  | .8761  | .8771  | .8781  | .8791  | .8801  |
| 9.....                      | .8714                                          | .8724  | .8734  | .8744  | .8754  | .8765  | .8775  | .8785  | .8795  | .8805  |
| 10.....                     | .8718                                          | .8728  | .8738  | .8748  | .8758  | .8769  | .8779  | .8789  | .8799  | .8809  |
| 11.....                     | .8722                                          | .8732  | .8742  | .8752  | .8762  | .8773  | .8783  | .8793  | .8803  | .8813  |
| 12.....                     | .8725                                          | .8735  | .8745  | .8755  | .8765  | .8776  | .8786  | .8796  | .8806  | .8816  |
| 13.....                     | .8729                                          | .8739  | .8749  | .8759  | .8769  | .8780  | .8790  | .8800  | .8810  | .8820  |
| 14.....                     | .8733                                          | .8743  | .8753  | .8763  | .8773  | .8784  | .8794  | .8804  | .8814  | .8824  |
| 15.....                     | .8737                                          | .8747  | .8757  | .8767  | .8777  | .8788  | .8798  | .8808  | .8818  | .8828  |
| 16.....                     | .8741                                          | .8751  | .8761  | .8771  | .8781  | .8792  | .8802  | .8812  | .8822  | .8832  |
| 17.....                     | .8744                                          | .8754  | .8764  | .8774  | .8784  | .8795  | .8805  | .8815  | .8825  | .8835  |
| 18.....                     | .8748                                          | .8758  | .8768  | .8778  | .8788  | .8799  | .8809  | .8819  | .8829  | .8839  |
| 19.....                     | .8752                                          | .8762  | .8772  | .8782  | .8792  | .8803  | .8813  | .8823  | .8833  | .8843  |
| 20.....                     | .8755                                          | .8765  | .8775  | .8785  | .8795  | .8806  | .8816  | .8826  | .8836  | .8846  |
| 21.....                     | .8759                                          | .8769  | .8779  | .8789  | .8799  | .8810  | .8820  | .8830  | .8840  | .8850  |
| 22.....                     | .8762                                          | .8772  | .8782  | .8792  | .8802  | .8813  | .8823  | .8833  | .8843  | .8853  |
| 23.....                     | .8766                                          | .8776  | .8786  | .8796  | .8806  | .8817  | .8827  | .8837  | .8847  | .8857  |
| 24.....                     | .8770                                          | .8780  | .8790  | .8800  | .8810  | .8820  | .8830  | .8840  | .8850  | .8860  |
| 25.....                     | .8773                                          | .8783  | .8793  | .8803  | .8813  | .8824  | .8834  | .8844  | .8854  | .8864  |
| 26.....                     | .8777                                          | .8787  | .8797  | .8807  | .8817  | .8828  | .8838  | .8848  | .8858  | .8868  |
| 27.....                     | .8781                                          | .8791  | .8801  | .8811  | .8821  | .8832  | .8842  | .8852  | .8862  | .8872  |
| 28.....                     | .8785                                          | .8795  | .8805  | .8815  | .8825  | .8836  | .8846  | .8856  | .8866  | .8876  |
| 29.....                     | .8788                                          | .8798  | .8808  | .8818  | .8828  | .8839  | .8849  | .8859  | .8869  | .8879  |
| 30.....                     | .8792                                          | .8802  | .8812  | .8822  | .8832  | .8843  | .8853  | .8863  | .8873  | .8883  |
| 31.....                     | .8795                                          | .8805  | .8815  | .8825  | .8835  | .8846  | .8856  | .8866  | .8876  | .8886  |
| 32.....                     | .8799                                          | .8809  | .8819  | .8829  | .8839  | .8850  | .8860  | .8870  | .8880  | .8890  |
| 33.....                     | .8803                                          | .8813  | .8823  | .8833  | .8843  | .8853  | .8863  | .8873  | .8883  | .8893  |
| 34.....                     | .8806                                          | .8816  | .8826  | .8836  | .8846  | .8857  | .8867  | .8877  | .8887  | .8897  |
| 35.....                     | .8810                                          | .8820  | .8830  | .8840  | .8850  | .8861  | .8871  | .8881  | .8891  | .8901  |
| 36.....                     | .8814                                          | .8824  | .8834  | .8844  | .8854  | .8865  | .8875  | .8885  | .8895  | .8905  |
| 37.....                     | .8817                                          | .8827  | .8837  | .8847  | .8857  | .8868  | .8878  | .8888  | .8898  | .8908  |
| 38.....                     | .8821                                          | .8831  | .8841  | .8851  | .8861  | .8872  | .8882  | .8892  | .8902  | .8912  |
| 39.....                     | .8825                                          | .8835  | .8845  | .8855  | .8865  | .8875  | .8885  | .8895  | .8905  | .8915  |
| 40.....                     | .8828                                          | .8838  | .8848  | .8858  | .8868  | .8879  | .8889  | .8899  | .8909  | .8919  |
| 41.....                     | .8832                                          | .8842  | .8852  | .8862  | .8872  | .8882  | .8892  | .8902  | .8912  | .8922  |
| 42.....                     | .8835                                          | .8845  | .8855  | .8865  | .8875  | .8886  | .8896  | .8906  | .8916  | .8926  |
| 43.....                     | .8839                                          | .8849  | .8859  | .8869  | .8879  | .8890  | .8900  | .8910  | .8920  | .8930  |
| 44.....                     | .8843                                          | .8853  | .8863  | .8873  | .8883  | .8893  | .8903  | .8913  | .8923  | .8933  |
| 45.....                     | .8847                                          | .8857  | .8867  | .8877  | .8887  | .8897  | .8907  | .8917  | .8927  | .8937  |
| 46.....                     | .8850                                          | .8860  | .8870  | .8880  | .8890  | .8900  | .8910  | .8920  | .8930  | .8940  |
| 47.....                     | .8854                                          | .8864  | .8874  | .8884  | .8894  | .8904  | .8914  | .8924  | .8934  | .8944  |
| 48.....                     | .8857                                          | .8867  | .8877  | .8887  | .8897  | .8907  | .8917  | .8927  | .8937  | .8947  |
| 49.....                     | .8861                                          | .8871  | .8881  | .8891  | .8901  | .8911  | .8921  | .8931  | .8941  | .8951  |
| 50.....                     | .8864                                          | .8874  | .8884  | .8894  | .8904  | .8914  | .8924  | .8934  | .8944  | .8954  |
| 51.....                     | .8868                                          | .8878  | .8888  | .8898  | .8908  | .8918  | .8928  | .8938  | .8948  | .8958  |
| 52.....                     | .8872                                          | .8882  | .8892  | .8902  | .8912  | .8922  | .8932  | .8942  | .8952  | .8962  |
| 53.....                     | .8875                                          | .8885  | .8895  | .8905  | .8915  | .8925  | .8935  | .8945  | .8955  | .8965  |
| 54.....                     | .8879                                          | .8889  | .8899  | .8909  | .8919  | .8929  | .8939  | .8949  | .8959  | .8969  |
| 55.....                     | .8882                                          | .8892  | .8902  | .8912  | .8922  | .8932  | .8942  | .8952  | .8962  | .8972  |
| 56.....                     | .8886                                          | .8896  | .8906  | .8916  | .8926  | .8936  | .8946  | .8956  | .8966  | .8976  |
| 57.....                     | .8890                                          | .8900  | .8910  | .8920  | .8930  | .8940  | .8950  | .8960  | .8970  | .8980  |
| 58.....                     | .8893                                          | .8903  | .8913  | .8923  | .8933  | .8943  | .8953  | .8963  | .8973  | .8983  |
| 59.....                     | .8897                                          | .8907  | .8917  | .8927  | .8937  | .8947  | .8957  | .8967  | .8977  | .8987  |
| 60.....                     | .8900                                          | .8910  | .8920  | .8930  | .8940  | .8950  | .8960  | .8970  | .8980  | .8990  |
| 61.....                     | .8904                                          | .8914  | .8924  | .8934  | .8944  | .8954  | .8964  | .8974  | .8984  | .8994  |
| 62.....                     | .8907                                          | .8917  | .8927  | .8937  | .8947  | .8957  | .8967  | .8977  | .8987  | .8997  |
| 63.....                     | .8910                                          | .8920  | .8930  | .8940  | .8950  | .8960  | .8970  | .8980  | .8990  | .9000  |
| 64.....                     | .8914                                          | .8924  | .8934  | .8944  | .8954  | .8964  | .8974  | .8984  | .8994  | .9004  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in ° F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 0.890                                          | 0.891  | 0.892  | 0.893  | 0.894  | 0.895  | 0.896  | 0.897  | 0.898  | 0.899  |
|                              | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                      | 0.8918                                         | 0.8928 | 0.8938 | 0.8948 | 0.8958 | 0.8968 | 0.8978 | 0.8988 | 0.8998 | 0.9008 |
| 66.....                      | .8922                                          | .8932  | .8942  | .8952  | .8962  | .8972  | .8982  | .8992  | .9002  | .9012  |
| 67.....                      | .8925                                          | .8935  | .8945  | .8955  | .8965  | .8975  | .8985  | .8995  | .9005  | .9015  |
| 68.....                      | .8929                                          | .8939  | .8949  | .8959  | .8969  | .8979  | .8989  | .8999  | .9009  | .9019  |
| 69.....                      | .8932                                          | .8942  | .8952  | .8962  | .8972  | .8982  | .8992  | .9002  | .9012  | .9022  |
| 70.....                      | .8936                                          | .8946  | .8956  | .8966  | .8976  | .8986  | .8996  | .9006  | .9016  | .9026  |
| 71.....                      | .8939                                          | .8949  | .8959  | .8969  | .8979  | .8989  | .8999  | .9009  | .9019  | .9029  |
| 72.....                      | .8943                                          | .8953  | .8963  | .8973  | .8983  | .8993  | .9003  | .9013  | .9023  | .9033  |
| 73.....                      | .8947                                          | .8957  | .8967  | .8977  | .8987  | .8997  | .9007  | .9017  | .9027  | .9037  |
| 74.....                      | .8950                                          | .8960  | .8970  | .8980  | .8990  | .9000  | .9010  | .9020  | .9030  | .9040  |
| 75.....                      | .8954                                          | .8964  | .8974  | .8984  | .8994  | .9004  | .9014  | .9024  | .9034  | .9044  |
| 76.....                      | .8958                                          | .8968  | .8978  | .8988  | .8998  | .9007  | .9017  | .9027  | .9037  | .9047  |
| 77.....                      | .8961                                          | .8971  | .8981  | .8991  | .9001  | .9010  | .9020  | .9030  | .9040  | .9050  |
| 78.....                      | .8965                                          | .8975  | .8985  | .8995  | .9005  | .9014  | .9024  | .9034  | .9044  | .9054  |
| 79.....                      | .8968                                          | .8978  | .8988  | .8998  | .9008  | .9018  | .9028  | .9038  | .9048  | .9058  |
| 80.....                      | .8972                                          | .8982  | .8992  | .9002  | .9012  | .9022  | .9032  | .9042  | .9052  | .9062  |
| 81.....                      | .8975                                          | .8985  | .8995  | .9005  | .9015  | .9025  | .9035  | .9045  | .9055  | .9065  |
| 82.....                      | .8979                                          | .8989  | .8999  | .9009  | .9019  | .9029  | .9039  | .9049  | .9059  | .9069  |
| 83.....                      | .8983                                          | .8993  | .9003  | .9013  | .9023  | .9032  | .9042  | .9052  | .9062  | .9072  |
| 84.....                      | .8986                                          | .8996  | .9006  | .9016  | .9026  | .9035  | .9045  | .9055  | .9065  | .9075  |
| 85.....                      | .8990                                          | .9000  | .9010  | .9020  | .9030  | .9039  | .9049  | .9059  | .9069  | .9079  |
| 86.....                      | .8993                                          | .9003  | .9013  | .9023  | .9033  | .9042  | .9052  | .9062  | .9072  | .9082  |
| 87.....                      | .8997                                          | .9007  | .9017  | .9027  | .9037  | .9046  | .9056  | .9066  | .9076  | .9086  |
| 88.....                      | .9000                                          | .9010  | .9020  | .9030  | .9040  | .9049  | .9059  | .9069  | .9079  | .9089  |
| 89.....                      | .9004                                          | .9014  | .9024  | .9034  | .9044  | .9053  | .9063  | .9073  | .9083  | .9093  |
| 90.....                      | .9007                                          | .9017  | .9027  | .9037  | .9047  | .9056  | .9066  | .9076  | .9086  | .9096  |
| 91.....                      | .9011                                          | .9021  | .9031  | .9041  | .9051  | .9060  | .9070  | .9080  | .9090  | .9100  |
| 92.....                      | .9014                                          | .9024  | .9034  | .9044  | .9054  | .9064  | .9074  | .9084  | .9094  | .9104  |
| 93.....                      | .9017                                          | .9027  | .9037  | .9047  | .9057  | .9067  | .9077  | .9087  | .9097  | .9107  |
| 94.....                      | .9020                                          | .9030  | .9040  | .9050  | .9060  | .9070  | .9080  | .9090  | .9100  | .9110  |
| 95.....                      | .9024                                          | .9034  | .9044  | .9054  | .9064  | .9074  | .9084  | .9094  | .9104  | .9114  |
| 96.....                      | .9027                                          | .9037  | .9047  | .9057  | .9067  | .9077  | .9087  | .9097  | .9107  | .9117  |
| 97.....                      | .9031                                          | .9041  | .9051  | .9061  | .9071  | .9081  | .9091  | .9101  | .9111  | .9121  |
| 98.....                      | .9035                                          | .9045  | .9055  | .9065  | .9075  | .9085  | .9095  | .9105  | .9115  | .9125  |
| 99.....                      | .9038                                          | .9048  | .9058  | .9068  | .9078  | .9088  | .9098  | .9108  | .9118  | .9128  |
| 100.....                     | .9042                                          | .9052  | .9062  | .9072  | .9082  | .9091  | .9101  | .9111  | .9121  | .9131  |
| 101.....                     | .9045                                          | .9055  | .9065  | .9075  | .9085  | .9094  | .9104  | .9114  | .9124  | .9134  |
| 102.....                     | .9049                                          | .9059  | .9069  | .9079  | .9089  | .9098  | .9108  | .9118  | .9128  | .9138  |
| 103.....                     | .9052                                          | .9062  | .9072  | .9082  | .9092  | .9101  | .9111  | .9121  | .9131  | .9141  |
| 104.....                     | .9056                                          | .9066  | .9076  | .9086  | .9096  | .9105  | .9115  | .9125  | .9135  | .9145  |
| 105.....                     | .9060                                          | .9070  | .9080  | .9090  | .9100  | .9109  | .9119  | .9129  | .9139  | .9149  |
| 106.....                     | .9063                                          | .9073  | .9083  | .9093  | .9103  | .9112  | .9122  | .9132  | .9142  | .9152  |
| 107.....                     | .9067                                          | .9077  | .9087  | .9096  | .9106  | .9116  | .9126  | .9136  | .9145  | .9155  |
| 108.....                     | .9070                                          | .9080  | .9090  | .9100  | .9110  | .9119  | .9129  | .9139  | .9149  | .9159  |
| 109.....                     | .9074                                          | .9084  | .9094  | .9104  | .9114  | .9123  | .9133  | .9143  | .9153  | .9163  |
| 110.....                     | .9077                                          | .9087  | .9097  | .9107  | .9117  | .9126  | .9136  | .9146  | .9156  | .9166  |
| 111.....                     | .9080                                          | .9090  | .9100  | .9110  | .9120  | .9129  | .9139  | .9149  | .9159  | .9169  |
| 112.....                     | .9084                                          | .9094  | .9104  | .9114  | .9124  | .9133  | .9143  | .9153  | .9163  | .9173  |
| 113.....                     | .9087                                          | .9097  | .9107  | .9117  | .9127  | .9136  | .9146  | .9156  | .9166  | .9176  |
| 114.....                     | .9091                                          | .9101  | .9111  | .9120  | .9130  | .9140  | .9150  | .9160  | .9169  | .9179  |
| 115.....                     | .9094                                          | .9104  | .9114  | .9124  | .9134  | .9143  | .9153  | .9163  | .9173  | .9183  |
| 116.....                     | .9097                                          | .9107  | .9117  | .9127  | .9137  | .9146  | .9156  | .9166  | .9176  | .9186  |
| 117.....                     | .9100                                          | .9110  | .9120  | .9130  | .9140  | .9149  | .9159  | .9169  | .9179  | .9189  |
| 118.....                     | .9104                                          | .9114  | .9124  | .9133  | .9143  | .9153  | .9163  | .9173  | .9182  | .9192  |
| 119.....                     | .9107                                          | .9117  | .9127  | .9137  | .9147  | .9156  | .9166  | .9176  | .9186  | .9196  |
| 120.....                     | .9111                                          | .9121  | .9131  | .9141  | .9151  | .9160  | .9170  | .9180  | .9190  | .9200  |
| 121.....                     | .9115                                          | .9125  | .9135  | .9145  | .9155  | .9164  | .9174  | .9184  | .9194  | .9204  |
| 122.....                     | .9118                                          | .9128  | .9138  | .9148  | .9158  | .9167  | .9177  | .9187  | .9197  | .9207  |
| 123.....                     | .9121                                          | .9131  | .9141  | .9151  | .9161  | .9170  | .9180  | .9190  | .9200  | .9210  |
| 124.....                     | .9125                                          | .9135  | .9145  | .9155  | .9165  | .9174  | .9184  | .9194  | .9204  | .9214  |
| 125.....                     | .9128                                          | .9138  | .9148  | .9158  | .9168  | .9177  | .9187  | .9197  | .9207  | .9217  |
| 126.....                     | .9131                                          | .9141  | .9151  | .9161  | .9171  | .9180  | .9190  | .9200  | .9210  | .9220  |
| 127.....                     | .9135                                          | .9145  | .9155  | .9165  | .9175  | .9184  | .9194  | .9204  | .9214  | .9224  |
| 128.....                     | .9138                                          | .9148  | .9158  | .9168  | .9178  | .9187  | .9197  | .9207  | .9217  | .9227  |
| 129.....                     | .9142                                          | .9152  | .9162  | .9172  | .9182  | .9191  | .9201  | .9211  | .9221  | .9231  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed tempera-<br>ture in ° F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                   | 0.890                                          | 0.891  | 0.892  | 0.893  | 0.894  | 0.895  | 0.896  | 0.897  | 0.898  | 0.899  |
|                                   | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 130.....                          | 0.9146                                         | 0.9156 | 0.9166 | 0.9176 | 0.9186 | 0.9195 | 0.9205 | 0.9215 | 0.9225 | 0.9235 |
| 131.....                          | .9149                                          | .9159  | .9169  | .9179  | .9189  | .9198  | .9208  | .9218  | .9228  | .9238  |
| 132.....                          | .9152                                          | .9162  | .9172  | .9182  | .9192  | .9201  | .9211  | .9221  | .9231  | .9241  |
| 133.....                          | .9156                                          | .9166  | .9176  | .9186  | .9196  | .9205  | .9215  | .9225  | .9235  | .9245  |
| 134.....                          | .9159                                          | .9169  | .9179  | .9189  | .9199  | .9208  | .9218  | .9228  | .9238  | .9248  |
| 135.....                          | .9162                                          | .9172  | .9182  | .9192  | .9202  | .9211  | .9221  | .9231  | .9241  | .9251  |
| 136.....                          | .9166                                          | .9176  | .9186  | .9196  | .9206  | .9215  | .9225  | .9235  | .9245  | .9255  |
| 137.....                          | .9169                                          | .9179  | .9189  | .9199  | .9209  | .9218  | .9228  | .9238  | .9248  | .9258  |
| 138.....                          | .9173                                          | .9183  | .9193  | .9203  | .9213  | .9222  | .9232  | .9242  | .9252  | .9262  |
| 139.....                          | .9176                                          | .9186  | .9196  | .9206  | .9216  | .9225  | .9235  | .9245  | .9255  | .9265  |
| 140.....                          | .9180                                          | .9190  | .9200  | .9210  | .9220  | .9229  | .9239  | .9249  | .9259  | .9269  |
| 141.....                          | .9183                                          | .9193  | .9203  | .9213  | .9223  | .9232  | .9242  | .9252  | .9262  | .9272  |
| 142.....                          | .9186                                          | .9196  | .9206  | .9216  | .9226  | .9235  | .9245  | .9255  | .9265  | .9275  |
| 143.....                          | .9189                                          | .9199  | .9209  | .9219  | .9229  | .9238  | .9248  | .9258  | .9268  | .9278  |
| 144.....                          | .9193                                          | .9203  | .9213  | .9223  | .9233  | .9242  | .9252  | .9262  | .9272  | .9282  |
| 145.....                          | .9196                                          | .9206  | .9216  | .9226  | .9236  | .9245  | .9255  | .9265  | .9275  | .9285  |
| 146.....                          | .9199                                          | .9209  | .9219  | .9229  | .9239  | .9248  | .9258  | .9268  | .9278  | .9288  |
| 147.....                          | .9203                                          | .9213  | .9223  | .9233  | .9243  | .9253  | .9262  | .9272  | .9282  | .9292  |
| 148.....                          | .9206                                          | .9216  | .9226  | .9236  | .9246  | .9255  | .9265  | .9275  | .9285  | .9295  |
| 149.....                          | .9209                                          | .9219  | .9229  | .9239  | .9249  | .9259  | .9269  | .9279  | .9289  | .9299  |
| 150.....                          | .9212                                          | .9222  | .9232  | .9242  | .9252  | .9262  | .9272  | .9282  | .9292  | .9302  |
| 151.....                          | .9216                                          | .9226  | .9236  | .9246  | .9256  | .9265  | .9275  | .9285  | .9295  | .9305  |
| 152.....                          | .9219                                          | .9229  | .9239  | .9249  | .9259  | .9268  | .9278  | .9288  | .9298  | .9308  |
| 153.....                          | .9222                                          | .9232  | .9242  | .9252  | .9262  | .9272  | .9282  | .9292  | .9302  | .9312  |
| 154.....                          | .9226                                          | .9236  | .9246  | .9256  | .9266  | .9275  | .9285  | .9295  | .9305  | .9315  |
| 155.....                          | .9229                                          | .9239  | .9249  | .9259  | .9269  | .9278  | .9288  | .9298  | .9308  | .9318  |
| 156.....                          | .9232                                          | .9242  | .9252  | .9262  | .9272  | .9282  | .9292  | .9302  | .9312  | .9322  |
| 157.....                          | .9236                                          | .9246  | .9256  | .9266  | .9276  | .9286  | .9296  | .9306  | .9316  | .9326  |
| 158.....                          | .9240                                          | .9250  | .9260  | .9270  | .9280  | .9290  | .9300  | .9310  | .9320  | .9330  |
| 159.....                          | .9243                                          | .9253  | .9263  | .9273  | .9283  | .9293  | .9303  | .9313  | .9323  | .9333  |
| 160.....                          | .9247                                          | .9257  | .9267  | .9277  | .9287  | .9296  | .9306  | .9316  | .9326  | .9336  |
| 161.....                          | .9250                                          | .9260  | .9270  | .9280  | .9290  | .9299  | .9309  | .9319  | .9329  | .9339  |
| 162.....                          | .9253                                          | .9263  | .9273  | .9283  | .9293  | .9302  | .9312  | .9322  | .9332  | .9342  |
| 163.....                          | .9257                                          | .9267  | .9277  | .9287  | .9297  | .9306  | .9316  | .9326  | .9336  | .9346  |
| 164.....                          | .9260                                          | .9270  | .9280  | .9290  | .9300  | .9310  | .9320  | .9330  | .9340  | .9350  |
| 165.....                          | .9264                                          | .9274  | .9284  | .9294  | .9304  | .9313  | .9323  | .9333  | .9343  | .9353  |
| 166.....                          | .9267                                          | .9277  | .9287  | .9297  | .9307  | .9316  | .9326  | .9336  | .9346  | .9356  |
| 167.....                          | .9271                                          | .9281  | .9291  | .9301  | .9311  | .9320  | .9330  | .9340  | .9350  | .9360  |
| 168.....                          | .9274                                          | .9284  | .9294  | .9304  | .9314  | .9323  | .9333  | .9343  | .9353  | .9363  |
| 169.....                          | .9278                                          | .9288  | .9298  | .9308  | .9318  | .9327  | .9337  | .9347  | .9357  | .9367  |
| 170.....                          | .9281                                          | .9291  | .9301  | .9311  | .9321  | .9330  | .9340  | .9350  | .9360  | .9370  |
| 171.....                          | .9284                                          | .9294  | .9304  | .9314  | .9324  | .9333  | .9343  | .9353  | .9363  | .9373  |
| 172.....                          | .9287                                          | .9297  | .9307  | .9317  | .9327  | .9336  | .9346  | .9356  | .9366  | .9376  |
| 173.....                          | .9290                                          | .9300  | .9310  | .9320  | .9330  | .9339  | .9349  | .9359  | .9369  | .9379  |
| 174.....                          | .9294                                          | .9304  | .9314  | .9324  | .9334  | .9343  | .9353  | .9363  | .9373  | .9383  |
| 175.....                          | .9298                                          | .9308  | .9318  | .9327  | .9337  | .9347  | .9357  | .9367  | .9376  | .9386  |
| 176.....                          | .9301                                          | .9311  | .9321  | .9331  | .9341  | .9350  | .9360  | .9370  | .9380  | .9390  |
| 177.....                          | .9305                                          | .9315  | .9325  | .9334  | .9344  | .9354  | .9364  | .9374  | .9383  | .9393  |
| 178.....                          | .9308                                          | .9318  | .9328  | .9337  | .9347  | .9357  | .9367  | .9377  | .9386  | .9396  |
| 179.....                          | .9311                                          | .9321  | .9331  | .9340  | .9350  | .9360  | .9370  | .9380  | .9389  | .9399  |
| 180.....                          | .9315                                          | .9325  | .9335  | .9344  | .9354  | .9364  | .9374  | .9384  | .9393  | .9403  |
| 181.....                          | .9318                                          | .9328  | .9338  | .9347  | .9357  | .9367  | .9377  | .9387  | .9396  | .9406  |
| 182.....                          | .9321                                          | .9331  | .9341  | .9350  | .9360  | .9370  | .9380  | .9390  | .9399  | .9409  |
| 183.....                          | .9324                                          | .9334  | .9344  | .9353  | .9363  | .9373  | .9383  | .9393  | .9402  | .9412  |
| 184.....                          | .9327                                          | .9337  | .9347  | .9356  | .9366  | .9376  | .9386  | .9396  | .9405  | .9415  |
| 185.....                          | .9330                                          | .9340  | .9350  | .9360  | .9370  | .9379  | .9389  | .9399  | .9409  | .9419  |
| 186.....                          | .9333                                          | .9343  | .9353  | .9363  | .9373  | .9382  | .9392  | .9402  | .9412  | .9422  |
| 187.....                          | .9336                                          | .9346  | .9356  | .9366  | .9376  | .9385  | .9395  | .9405  | .9415  | .9425  |
| 188.....                          | .9340                                          | .9350  | .9360  | .9370  | .9380  | .9389  | .9399  | .9409  | .9419  | .9429  |
| 189.....                          | .9343                                          | .9353  | .9363  | .9373  | .9383  | .9392  | .9402  | .9412  | .9422  | .9432  |
| 190.....                          | .9346                                          | .9356  | .9366  | .9376  | .9386  | .9395  | .9405  | .9415  | .9425  | .9435  |
| 191.....                          | .9350                                          | .9360  | .9370  | .9380  | .9390  | .9399  | .9409  | .9419  | .9429  | .9439  |
| 192.....                          | .9353                                          | .9363  | .9373  | .9383  | .9393  | .9402  | .9412  | .9422  | .9432  | .9442  |
| 193.....                          | .9356                                          | .9366  | .9376  | .9386  | .9396  | .9405  | .9415  | .9425  | .9435  | .9445  |
| 194.....                          | .9360                                          | .9370  | .9380  | .9390  | .9400  | .9409  | .9419  | .9429  | .9439  | .9449  |
| 195.....                          | .9363                                          | .9373  | .9383  | .9393  | .9403  | .9412  | .9422  | .9432  | .9442  | .9452  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in ° F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 0.900                                          | 0.901  | 0.902  | 0.903  | 0.904  | 0.905  | 0.906  | 0.907  | 0.908  | 0.909  |
|                              | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                       | 0.8780                                         | 0.8790 | 0.8800 | 0.8810 | 0.8820 | 0.8831 | 0.8841 | 0.8851 | 0.8861 | 0.8871 |
| 1.....                       | .8784                                          | .8794  | .8804  | .8814  | .8824  | .8835  | .8845  | .8855  | .8865  | .8875  |
| 2.....                       | .8789                                          | .8799  | .8809  | .8819  | .8829  | .8839  | .8849  | .8859  | .8869  | .8879  |
| 3.....                       | .8793                                          | .8803  | .8813  | .8823  | .8833  | .8843  | .8853  | .8863  | .8873  | .8883  |
| 4.....                       | .8797                                          | .8807  | .8817  | .8827  | .8837  | .8847  | .8857  | .8867  | .8877  | .8887  |
| 5.....                       | .8801                                          | .8811  | .8821  | .8831  | .8841  | .8851  | .8861  | .8871  | .8881  | .8891  |
| 6.....                       | .8804                                          | .8814  | .8824  | .8834  | .8844  | .8855  | .8865  | .8875  | .8885  | .8895  |
| 7.....                       | .8808                                          | .8818  | .8828  | .8838  | .8848  | .8859  | .8869  | .8879  | .8889  | .8899  |
| 8.....                       | .8811                                          | .8821  | .8831  | .8841  | .8851  | .8862  | .8872  | .8882  | .8892  | .8902  |
| 9.....                       | .8815                                          | .8825  | .8835  | .8845  | .8855  | .8866  | .8876  | .8886  | .8896  | .8906  |
| 10.....                      | .8819                                          | .8829  | .8839  | .8849  | .8859  | .8870  | .8880  | .8890  | .8900  | .8910  |
| 11.....                      | .8823                                          | .8833  | .8843  | .8853  | .8863  | .8873  | .8883  | .8893  | .8903  | .8913  |
| 12.....                      | .8826                                          | .8836  | .8846  | .8856  | .8866  | .8877  | .8887  | .8897  | .8907  | .8917  |
| 13.....                      | .8830                                          | .8840  | .8850  | .8860  | .8870  | .8881  | .8891  | .8901  | .8911  | .8921  |
| 14.....                      | .8834                                          | .8844  | .8854  | .8864  | .8874  | .8884  | .8894  | .8904  | .8914  | .8924  |
| 15.....                      | .8838                                          | .8848  | .8858  | .8868  | .8878  | .8888  | .8898  | .8908  | .8918  | .8928  |
| 16.....                      | .8842                                          | .8852  | .8862  | .8872  | .8882  | .8892  | .8902  | .8912  | .8922  | .8932  |
| 17.....                      | .8845                                          | .8855  | .8865  | .8875  | .8885  | .8895  | .8905  | .8915  | .8925  | .8935  |
| 18.....                      | .8849                                          | .8859  | .8869  | .8879  | .8889  | .8899  | .8909  | .8919  | .8929  | .8939  |
| 19.....                      | .8853                                          | .8863  | .8873  | .8883  | .8893  | .8903  | .8913  | .8923  | .8933  | .8943  |
| 20.....                      | .8856                                          | .8866  | .8876  | .8886  | .8896  | .8906  | .8916  | .8926  | .8936  | .8946  |
| 21.....                      | .8860                                          | .8870  | .8880  | .8890  | .8900  | .8910  | .8920  | .8930  | .8940  | .8950  |
| 22.....                      | .8863                                          | .8873  | .8883  | .8893  | .8903  | .8914  | .8924  | .8934  | .8944  | .8954  |
| 23.....                      | .8867                                          | .8877  | .8887  | .8897  | .8907  | .8917  | .8927  | .8937  | .8947  | .8957  |
| 24.....                      | .8870                                          | .8880  | .8890  | .8900  | .8910  | .8921  | .8931  | .8941  | .8951  | .8961  |
| 25.....                      | .8874                                          | .8884  | .8894  | .8904  | .8914  | .8924  | .8934  | .8944  | .8954  | .8964  |
| 26.....                      | .8878                                          | .8888  | .8898  | .8908  | .8918  | .8928  | .8938  | .8948  | .8958  | .8968  |
| 27.....                      | .8882                                          | .8892  | .8902  | .8912  | .8922  | .8932  | .8942  | .8952  | .8962  | .8972  |
| 28.....                      | .8886                                          | .8896  | .8906  | .8916  | .8926  | .8936  | .8946  | .8956  | .8966  | .8976  |
| 29.....                      | .8889                                          | .8899  | .8909  | .8919  | .8929  | .8940  | .8950  | .8960  | .8970  | .8980  |
| 30.....                      | .8893                                          | .8903  | .8913  | .8923  | .8933  | .8943  | .8953  | .8963  | .8973  | .8983  |
| 31.....                      | .8896                                          | .8906  | .8916  | .8926  | .8936  | .8947  | .8957  | .8967  | .8977  | .8987  |
| 32.....                      | .8900                                          | .8910  | .8920  | .8930  | .8940  | .8950  | .8960  | .8970  | .8980  | .8990  |
| 33.....                      | .8903                                          | .8913  | .8923  | .8933  | .8943  | .8954  | .8964  | .8974  | .8984  | .8994  |
| 34.....                      | .8907                                          | .8917  | .8927  | .8937  | .8947  | .8957  | .8967  | .8977  | .8987  | .8997  |
| 35.....                      | .8911                                          | .8921  | .8931  | .8941  | .8951  | .8961  | .8971  | .8981  | .8991  | .9001  |
| 36.....                      | .8915                                          | .8925  | .8935  | .8945  | .8955  | .8965  | .8975  | .8985  | .8995  | .9005  |
| 37.....                      | .8918                                          | .8928  | .8938  | .8948  | .8958  | .8968  | .8978  | .8988  | .8998  | .9008  |
| 38.....                      | .8922                                          | .8932  | .8942  | .8952  | .8962  | .8972  | .8982  | .8992  | .9002  | .9012  |
| 39.....                      | .8925                                          | .8935  | .8945  | .8955  | .8965  | .8975  | .8985  | .8995  | .9005  | .9015  |
| 40.....                      | .8929                                          | .8939  | .8949  | .8959  | .8969  | .8979  | .8989  | .8999  | .9009  | .9019  |
| 41.....                      | .8932                                          | .8942  | .8952  | .8962  | .8972  | .8982  | .8992  | .9002  | .9012  | .9022  |
| 42.....                      | .8936                                          | .8946  | .8956  | .8966  | .8976  | .8986  | .8996  | .9006  | .9016  | .9026  |
| 43.....                      | .8940                                          | .8950  | .8960  | .8970  | .8980  | .8990  | .9000  | .9010  | .9020  | .9030  |
| 44.....                      | .8943                                          | .8953  | .8963  | .8973  | .8983  | .8993  | .9003  | .9013  | .9023  | .9033  |
| 45.....                      | .8947                                          | .8957  | .8967  | .8977  | .8987  | .8997  | .9007  | .9017  | .9027  | .9037  |
| 46.....                      | .8950                                          | .8960  | .8970  | .8980  | .8990  | .9000  | .9010  | .9020  | .9030  | .9040  |
| 47.....                      | .8954                                          | .8964  | .8974  | .8984  | .8994  | .9004  | .9014  | .9024  | .9034  | .9044  |
| 48.....                      | .8957                                          | .8967  | .8977  | .8987  | .8997  | .9007  | .9017  | .9027  | .9037  | .9047  |
| 49.....                      | .8961                                          | .8971  | .8981  | .8991  | .9001  | .9011  | .9021  | .9031  | .9041  | .9051  |
| 50.....                      | .8964                                          | .8974  | .8984  | .8994  | .9004  | .9014  | .9024  | .9034  | .9044  | .9054  |
| 51.....                      | .8968                                          | .8978  | .8988  | .8998  | .9008  | .9018  | .9028  | .9038  | .9048  | .9058  |
| 52.....                      | .8972                                          | .8982  | .8992  | .9002  | .9012  | .9022  | .9032  | .9042  | .9052  | .9062  |
| 53.....                      | .8975                                          | .8985  | .8995  | .9005  | .9015  | .9025  | .9035  | .9045  | .9055  | .9065  |
| 54.....                      | .8979                                          | .8989  | .8999  | .9009  | .9019  | .9029  | .9039  | .9049  | .9059  | .9069  |
| 55.....                      | .8982                                          | .8992  | .9002  | .9012  | .9022  | .9032  | .9042  | .9052  | .9062  | .9072  |
| 56.....                      | .8986                                          | .8996  | .9006  | .9016  | .9026  | .9036  | .9046  | .9056  | .9066  | .9076  |
| 57.....                      | .8990                                          | .9000  | .9010  | .9020  | .9030  | .9040  | .9050  | .9060  | .9070  | .9080  |
| 58.....                      | .8993                                          | .9003  | .9013  | .9023  | .9033  | .9043  | .9053  | .9063  | .9073  | .9083  |
| 59.....                      | .8997                                          | .9007  | .9017  | .9027  | .9037  | .9047  | .9057  | .9067  | .9077  | .9087  |
| 60.....                      | .9000                                          | .9010  | .9020  | .9030  | .9040  | .9050  | .9060  | .9070  | .9080  | .9090  |
| 61.....                      | .9004                                          | .9014  | .9024  | .9034  | .9044  | .9054  | .9064  | .9074  | .9084  | .9094  |
| 62.....                      | .9007                                          | .9017  | .9027  | .9037  | .9047  | .9057  | .9067  | .9077  | .9087  | .9097  |
| 63.....                      | .9010                                          | .9020  | .9030  | .9040  | .9050  | .9060  | .9070  | .9080  | .9090  | .9100  |
| 64.....                      | .9014                                          | .9024  | .9034  | .9044  | .9054  | .9064  | .9074  | .9084  | .9094  | .9104  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed tempera-<br>ture in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|----------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                  | 0.900                                          | 0.901  | 0.902  | 0.903  | 0.904  | 0.905  | 0.906  | 0.907  | 0.908  | 0.909  |
|                                  | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                          | 0.9018                                         | 0.9028 | 0.9038 | 0.9048 | 0.9058 | 0.9068 | 0.9078 | 0.9088 | 0.9098 | 0.9108 |
| 66.....                          | .9022                                          | .9032  | .9042  | .9052  | .9062  | .9071  | .9081  | .9091  | .9101  | .9111  |
| 67.....                          | .9025                                          | .9035  | .9045  | .9055  | .9065  | .9075  | .9085  | .9095  | .9105  | .9115  |
| 68.....                          | .9029                                          | .9039  | .9049  | .9059  | .9069  | .9078  | .9088  | .9098  | .9108  | .9118  |
| 69.....                          | .9032                                          | .9042  | .9052  | .9062  | .9072  | .9082  | .9092  | .9102  | .9112  | .9122  |
| 70.....                          | .9036                                          | .9046  | .9056  | .9066  | .9076  | .9086  | .9096  | .9106  | .9116  | .9126  |
| 71.....                          | .9039                                          | .9049  | .9059  | .9069  | .9079  | .9089  | .9099  | .9109  | .9119  | .9129  |
| 72.....                          | .9043                                          | .9053  | .9063  | .9073  | .9083  | .9093  | .9103  | .9113  | .9123  | .9133  |
| 73.....                          | .9047                                          | .9057  | .9067  | .9077  | .9087  | .9097  | .9107  | .9117  | .9127  | .9137  |
| 74.....                          | .9050                                          | .9060  | .9070  | .9080  | .9090  | .9100  | .9110  | .9120  | .9130  | .9140  |
| 75.....                          | .9054                                          | .9064  | .9074  | .9084  | .9094  | .9104  | .9114  | .9124  | .9134  | .9144  |
| 76.....                          | .9057                                          | .9067  | .9077  | .9087  | .9097  | .9107  | .9117  | .9127  | .9137  | .9147  |
| 77.....                          | .9060                                          | .9070  | .9080  | .9090  | .9100  | .9110  | .9120  | .9130  | .9140  | .9150  |
| 78.....                          | .9064                                          | .9074  | .9084  | .9094  | .9104  | .9114  | .9124  | .9134  | .9144  | .9154  |
| 79.....                          | .9068                                          | .9078  | .9088  | .9098  | .9108  | .9118  | .9128  | .9138  | .9148  | .9158  |
| 80.....                          | .9072                                          | .9082  | .9092  | .9102  | .9112  | .9121  | .9131  | .9141  | .9151  | .9161  |
| 81.....                          | .9075                                          | .9085  | .9095  | .9105  | .9115  | .9125  | .9135  | .9145  | .9155  | .9165  |
| 82.....                          | .9079                                          | .9089  | .9099  | .9109  | .9119  | .9129  | .9139  | .9149  | .9159  | .9169  |
| 83.....                          | .9082                                          | .9092  | .9102  | .9112  | .9122  | .9132  | .9142  | .9152  | .9162  | .9172  |
| 84.....                          | .9085                                          | .9095  | .9105  | .9115  | .9125  | .9135  | .9145  | .9155  | .9165  | .9175  |
| 85.....                          | .9089                                          | .9099  | .9109  | .9119  | .9129  | .9139  | .9149  | .9159  | .9169  | .9179  |
| 86.....                          | .9092                                          | .9102  | .9112  | .9122  | .9132  | .9142  | .9152  | .9162  | .9172  | .9182  |
| 87.....                          | .9096                                          | .9106  | .9116  | .9126  | .9136  | .9146  | .9156  | .9166  | .9176  | .9186  |
| 88.....                          | .9099                                          | .9109  | .9119  | .9129  | .9139  | .9149  | .9159  | .9169  | .9179  | .9189  |
| 89.....                          | .9103                                          | .9113  | .9123  | .9133  | .9143  | .9153  | .9163  | .9173  | .9183  | .9193  |
| 90.....                          | .9106                                          | .9116  | .9126  | .9136  | .9146  | .9156  | .9166  | .9176  | .9186  | .9196  |
| 91.....                          | .9110                                          | .9120  | .9130  | .9140  | .9150  | .9160  | .9170  | .9180  | .9190  | .9200  |
| 92.....                          | .9114                                          | .9124  | .9134  | .9144  | .9154  | .9164  | .9174  | .9184  | .9194  | .9204  |
| 93.....                          | .9117                                          | .9127  | .9137  | .9147  | .9157  | .9167  | .9177  | .9187  | .9197  | .9207  |
| 94.....                          | .9120                                          | .9130  | .9140  | .9150  | .9160  | .9170  | .9180  | .9190  | .9200  | .9210  |
| 95.....                          | .9124                                          | .9134  | .9144  | .9154  | .9164  | .9173  | .9183  | .9193  | .9203  | .9213  |
| 96.....                          | .9127                                          | .9137  | .9147  | .9157  | .9167  | .9177  | .9187  | .9197  | .9207  | .9217  |
| 97.....                          | .9131                                          | .9141  | .9151  | .9161  | .9171  | .9180  | .9190  | .9200  | .9210  | .9220  |
| 98.....                          | .9135                                          | .9145  | .9155  | .9165  | .9175  | .9184  | .9194  | .9204  | .9214  | .9224  |
| 99.....                          | .9138                                          | .9148  | .9158  | .9168  | .9178  | .9187  | .9197  | .9207  | .9217  | .9227  |
| 100.....                         | .9141                                          | .9151  | .9161  | .9171  | .9181  | .9191  | .9201  | .9211  | .9221  | .9231  |
| 101.....                         | .9144                                          | .9154  | .9164  | .9174  | .9184  | .9194  | .9204  | .9214  | .9224  | .9234  |
| 102.....                         | .9148                                          | .9158  | .9168  | .9178  | .9188  | .9197  | .9207  | .9217  | .9227  | .9237  |
| 103.....                         | .9151                                          | .9161  | .9171  | .9181  | .9191  | .9201  | .9211  | .9221  | .9231  | .9241  |
| 104.....                         | .9155                                          | .9165  | .9175  | .9185  | .9195  | .9205  | .9215  | .9225  | .9235  | .9245  |
| 105.....                         | .9159                                          | .9169  | .9179  | .9189  | .9199  | .9208  | .9218  | .9228  | .9238  | .9248  |
| 106.....                         | .9162                                          | .9172  | .9182  | .9192  | .9202  | .9211  | .9221  | .9231  | .9241  | .9251  |
| 107.....                         | .9165                                          | .9175  | .9185  | .9195  | .9205  | .9214  | .9224  | .9234  | .9244  | .9254  |
| 108.....                         | .9169                                          | .9179  | .9189  | .9199  | .9209  | .9218  | .9228  | .9238  | .9248  | .9258  |
| 109.....                         | .9173                                          | .9183  | .9193  | .9203  | .9213  | .9222  | .9232  | .9242  | .9252  | .9262  |
| 110.....                         | .9176                                          | .9186  | .9196  | .9206  | .9216  | .9225  | .9235  | .9245  | .9255  | .9265  |
| 111.....                         | .9179                                          | .9189  | .9199  | .9209  | .9219  | .9228  | .9238  | .9248  | .9258  | .9268  |
| 112.....                         | .9183                                          | .9193  | .9203  | .9213  | .9223  | .9232  | .9242  | .9252  | .9262  | .9272  |
| 113.....                         | .9186                                          | .9196  | .9206  | .9216  | .9226  | .9236  | .9246  | .9256  | .9266  | .9276  |
| 114.....                         | .9189                                          | .9199  | .9209  | .9219  | .9229  | .9239  | .9249  | .9259  | .9269  | .9279  |
| 115.....                         | .9193                                          | .9203  | .9213  | .9223  | .9233  | .9242  | .9252  | .9262  | .9272  | .9282  |
| 116.....                         | .9196                                          | .9206  | .9216  | .9226  | .9236  | .9245  | .9255  | .9265  | .9275  | .9285  |
| 117.....                         | .9199                                          | .9209  | .9219  | .9229  | .9239  | .9248  | .9258  | .9268  | .9278  | .9288  |
| 118.....                         | .9202                                          | .9212  | .9222  | .9232  | .9242  | .9252  | .9262  | .9272  | .9282  | .9292  |
| 119.....                         | .9206                                          | .9216  | .9226  | .9236  | .9246  | .9255  | .9265  | .9275  | .9285  | .9295  |
| 120.....                         | .9210                                          | .9220  | .9230  | .9240  | .9250  | .9259  | .9269  | .9279  | .9289  | .9299  |
| 121.....                         | .9214                                          | .9224  | .9234  | .9244  | .9254  | .9263  | .9273  | .9283  | .9293  | .9303  |
| 122.....                         | .9217                                          | .9227  | .9237  | .9247  | .9257  | .9267  | .9277  | .9287  | .9297  | .9307  |
| 123.....                         | .9220                                          | .9230  | .9240  | .9250  | .9260  | .9270  | .9280  | .9290  | .9300  | .9310  |
| 124.....                         | .9224                                          | .9234  | .9244  | .9254  | .9264  | .9273  | .9283  | .9293  | .9303  | .9313  |
| 125.....                         | .9227                                          | .9237  | .9247  | .9257  | .9267  | .9276  | .9286  | .9296  | .9306  | .9316  |
| 126.....                         | .9230                                          | .9240  | .9250  | .9260  | .9270  | .9280  | .9290  | .9300  | .9310  | .9320  |
| 127.....                         | .9234                                          | .9244  | .9254  | .9264  | .9274  | .9283  | .9293  | .9303  | .9313  | .9323  |
| 128.....                         | .9237                                          | .9247  | .9257  | .9267  | .9277  | .9286  | .9296  | .9306  | .9316  | .9326  |
| 129.....                         | .9241                                          | .9251  | .9261  | .9271  | .9281  | .9290  | .9300  | .9310  | .9320  | .9330  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in ° F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 0.900                                          | 0.901  | 0.902  | 0.903  | 0.904  | 0.905  | 0.906  | 0.907  | 0.908  | 0.909  |
|                              | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 130.....                     | 0.9245                                         | 0.9255 | 0.9265 | 0.9275 | 0.9285 | 0.9294 | 0.9304 | 0.9314 | 0.9324 | 0.9334 |
| 131.....                     | .9248                                          | .9258  | .9268  | .9278  | .9288  | .9298  | .9308  | .9318  | .9328  | .9338  |
| 132.....                     | .9251                                          | .9261  | .9271  | .9281  | .9291  | .9301  | .9311  | .9321  | .9331  | .9341  |
| 133.....                     | .9255                                          | .9265  | .9275  | .9285  | .9295  | .9304  | .9314  | .9324  | .9334  | .9344  |
| 134.....                     | .9258                                          | .9268  | .9278  | .9288  | .9298  | .9307  | .9317  | .9327  | .9337  | .9347  |
| 135.....                     | .9261                                          | .9271  | .9281  | .9291  | .9301  | .9310  | .9320  | .9330  | .9340  | .9350  |
| 136.....                     | .9265                                          | .9275  | .9285  | .9295  | .9305  | .9314  | .9324  | .9334  | .9344  | .9354  |
| 137.....                     | .9268                                          | .9278  | .9288  | .9298  | .9308  | .9317  | .9327  | .9337  | .9347  | .9357  |
| 138.....                     | .9272                                          | .9282  | .9292  | .9302  | .9312  | .9321  | .9331  | .9341  | .9351  | .9361  |
| 139.....                     | .9275                                          | .9285  | .9295  | .9305  | .9315  | .9324  | .9334  | .9344  | .9354  | .9364  |
| 140.....                     | .9279                                          | .9289  | .9299  | .9309  | .9319  | .9328  | .9338  | .9348  | .9358  | .9368  |
| 141.....                     | .9282                                          | .9292  | .9302  | .9312  | .9322  | .9331  | .9341  | .9351  | .9361  | .9371  |
| 142.....                     | .9285                                          | .9295  | .9305  | .9315  | .9325  | .9334  | .9344  | .9354  | .9364  | .9374  |
| 143.....                     | .9288                                          | .9298  | .9308  | .9318  | .9328  | .9337  | .9347  | .9357  | .9367  | .9377  |
| 144.....                     | .9292                                          | .9302  | .9312  | .9322  | .9332  | .9341  | .9351  | .9361  | .9371  | .9381  |
| 145.....                     | .9295                                          | .9305  | .9315  | .9325  | .9335  | .9344  | .9354  | .9364  | .9374  | .9384  |
| 146.....                     | .9298                                          | .9308  | .9318  | .9328  | .9338  | .9347  | .9357  | .9367  | .9377  | .9387  |
| 147.....                     | .9302                                          | .9312  | .9322  | .9332  | .9342  | .9351  | .9361  | .9371  | .9381  | .9391  |
| 148.....                     | .9305                                          | .9315  | .9325  | .9335  | .9345  | .9355  | .9365  | .9375  | .9385  | .9395  |
| 149.....                     | .9309                                          | .9319  | .9329  | .9339  | .9349  | .9358  | .9368  | .9378  | .9388  | .9398  |
| 150.....                     | .9312                                          | .9322  | .9332  | .9342  | .9352  | .9361  | .9371  | .9381  | .9391  | .9401  |
| 151.....                     | .9315                                          | .9325  | .9335  | .9345  | .9355  | .9365  | .9375  | .9385  | .9395  | .9405  |
| 152.....                     | .9318                                          | .9328  | .9338  | .9348  | .9358  | .9368  | .9378  | .9388  | .9398  | .9408  |
| 153.....                     | .9322                                          | .9332  | .9342  | .9352  | .9362  | .9371  | .9381  | .9391  | .9401  | .9411  |
| 154.....                     | .9325                                          | .9335  | .9345  | .9355  | .9365  | .9375  | .9385  | .9395  | .9405  | .9415  |
| 155.....                     | .9328                                          | .9338  | .9348  | .9358  | .9368  | .9378  | .9388  | .9398  | .9408  | .9418  |
| 156.....                     | .9332                                          | .9342  | .9352  | .9362  | .9372  | .9382  | .9392  | .9402  | .9412  | .9422  |
| 157.....                     | .9336                                          | .9346  | .9356  | .9366  | .9376  | .9385  | .9395  | .9405  | .9415  | .9425  |
| 158.....                     | .9340                                          | .9350  | .9360  | .9370  | .9380  | .9389  | .9399  | .9409  | .9419  | .9429  |
| 159.....                     | .9343                                          | .9353  | .9363  | .9373  | .9383  | .9392  | .9402  | .9412  | .9422  | .9432  |
| 160.....                     | .9346                                          | .9356  | .9366  | .9376  | .9386  | .9395  | .9405  | .9415  | .9425  | .9435  |
| 161.....                     | .9349                                          | .9359  | .9369  | .9379  | .9389  | .9399  | .9409  | .9419  | .9429  | .9439  |
| 162.....                     | .9352                                          | .9362  | .9372  | .9382  | .9392  | .9402  | .9412  | .9422  | .9432  | .9442  |
| 163.....                     | .9356                                          | .9366  | .9376  | .9386  | .9396  | .9405  | .9415  | .9425  | .9435  | .9445  |
| 164.....                     | .9360                                          | .9370  | .9380  | .9390  | .9400  | .9409  | .9419  | .9429  | .9439  | .9449  |
| 165.....                     | .9363                                          | .9373  | .9383  | .9393  | .9403  | .9412  | .9422  | .9432  | .9442  | .9452  |
| 166.....                     | .9366                                          | .9376  | .9386  | .9396  | .9406  | .9415  | .9425  | .9435  | .9445  | .9455  |
| 167.....                     | .9370                                          | .9380  | .9390  | .9400  | .9410  | .9419  | .9429  | .9439  | .9449  | .9459  |
| 168.....                     | .9373                                          | .9383  | .9393  | .9403  | .9413  | .9422  | .9432  | .9442  | .9452  | .9462  |
| 169.....                     | .9377                                          | .9387  | .9397  | .9407  | .9417  | .9426  | .9436  | .9446  | .9456  | .9466  |
| 170.....                     | .9380                                          | .9390  | .9400  | .9410  | .9420  | .9429  | .9439  | .9449  | .9459  | .9469  |
| 171.....                     | .9383                                          | .9393  | .9403  | .9413  | .9423  | .9432  | .9442  | .9452  | .9462  | .9472  |
| 172.....                     | .9386                                          | .9396  | .9406  | .9416  | .9426  | .9435  | .9445  | .9455  | .9465  | .9475  |
| 173.....                     | .9389                                          | .9399  | .9409  | .9419  | .9429  | .9438  | .9448  | .9458  | .9468  | .9478  |
| 174.....                     | .9393                                          | .9403  | .9413  | .9423  | .9433  | .9442  | .9452  | .9462  | .9472  | .9482  |
| 175.....                     | .9396                                          | .9406  | .9416  | .9426  | .9436  | .9445  | .9455  | .9465  | .9475  | .9485  |
| 176.....                     | .9400                                          | .9410  | .9420  | .9430  | .9440  | .9449  | .9459  | .9469  | .9479  | .9489  |
| 177.....                     | .9403                                          | .9413  | .9423  | .9433  | .9443  | .9452  | .9462  | .9472  | .9482  | .9492  |
| 178.....                     | .9406                                          | .9416  | .9426  | .9436  | .9446  | .9455  | .9465  | .9475  | .9485  | .9495  |
| 179.....                     | .9409                                          | .9419  | .9429  | .9439  | .9449  | .9458  | .9468  | .9478  | .9488  | .9498  |
| 180.....                     | .9413                                          | .9423  | .9433  | .9442  | .9452  | .9462  | .9472  | .9482  | .9491  | .9501  |
| 181.....                     | .9416                                          | .9426  | .9436  | .9445  | .9455  | .9465  | .9475  | .9485  | .9494  | .9504  |
| 182.....                     | .9419                                          | .9429  | .9439  | .9449  | .9459  | .9468  | .9478  | .9488  | .9498  | .9508  |
| 183.....                     | .9422                                          | .9432  | .9442  | .9452  | .9462  | .9471  | .9481  | .9491  | .9501  | .9511  |
| 184.....                     | .9425                                          | .9435  | .9445  | .9455  | .9465  | .9474  | .9484  | .9494  | .9504  | .9514  |
| 185.....                     | .9429                                          | .9439  | .9449  | .9458  | .9468  | .9478  | .9488  | .9498  | .9507  | .9517  |
| 186.....                     | .9432                                          | .9442  | .9452  | .9461  | .9471  | .9481  | .9491  | .9501  | .9510  | .9520  |
| 187.....                     | .9435                                          | .9445  | .9455  | .9465  | .9475  | .9484  | .9494  | .9504  | .9514  | .9524  |
| 188.....                     | .9439                                          | .9449  | .9459  | .9468  | .9478  | .9488  | .9498  | .9508  | .9517  | .9527  |
| 189.....                     | .9442                                          | .9452  | .9462  | .9471  | .9481  | .9491  | .9501  | .9511  | .9520  | .9530  |
| 190.....                     | .9445                                          | .9455  | .9465  | .9475  | .9485  | .9494  | .9504  | .9514  | .9524  | .9534  |
| 191.....                     | .9449                                          | .9459  | .9469  | .9478  | .9488  | .9498  | .9508  | .9518  | .9527  | .9537  |
| 192.....                     | .9452                                          | .9462  | .9472  | .9481  | .9491  | .9501  | .9511  | .9521  | .9530  | .9540  |
| 193.....                     | .9455                                          | .9465  | .9475  | .9485  | .9495  | .9504  | .9514  | .9524  | .9534  | .9544  |
| 194.....                     | .9459                                          | .9469  | .9479  | .9488  | .9498  | .9508  | .9518  | .9528  | .9537  | .9547  |
| 195.....                     | .9462                                          | .9472  | .9482  | .9491  | .9501  | .9511  | .9521  | .9531  | .9540  | .9550  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.910                                          | 0.911  | 0.912  | 0.913  | 0.914  | 0.915  | 0.916  | 0.917  | 0.918  | 0.919  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.8881                                         | 0.8891 | 0.8901 | 0.8911 | 0.8921 | 0.8932 | 0.8942 | 0.8952 | 0.8962 | 0.8972 |
| 1.....                      | .8885                                          | .8895  | .8905  | .8915  | .8925  | .8936  | .8946  | .8956  | .8966  | .8976  |
| 2.....                      | .8889                                          | .8899  | .8909  | .8919  | .8929  | .8940  | .8950  | .8960  | .8970  | .8980  |
| 3.....                      | .8893                                          | .8903  | .8913  | .8923  | .8933  | .8944  | .8954  | .8964  | .8974  | .8984  |
| 4.....                      | .8897                                          | .8907  | .8917  | .8927  | .8937  | .8948  | .8958  | .8968  | .8978  | .8988  |
| 5.....                      | .8901                                          | .8911  | .8921  | .8931  | .8941  | .8952  | .8962  | .8972  | .8982  | .8992  |
| 6.....                      | .8905                                          | .8915  | .8925  | .8935  | .8945  | .8956  | .8966  | .8976  | .8986  | .8996  |
| 7.....                      | .8909                                          | .8919  | .8929  | .8939  | .8949  | .8960  | .8970  | .8980  | .8990  | .9000  |
| 8.....                      | .8912                                          | .8922  | .8932  | .8942  | .8952  | .8963  | .8973  | .8983  | .8993  | .9003  |
| 9.....                      | .8916                                          | .8926  | .8936  | .8946  | .8956  | .8967  | .8977  | .8987  | .8997  | .9007  |
| 10.....                     | .8920                                          | .8930  | .8940  | .8950  | .8960  | .8971  | .8981  | .8991  | .9001  | .9011  |
| 11.....                     | .8923                                          | .8933  | .8943  | .8953  | .8963  | .8974  | .8984  | .8994  | .9004  | .9014  |
| 12.....                     | .8927                                          | .8937  | .8947  | .8957  | .8967  | .8978  | .8988  | .8998  | .9008  | .9018  |
| 13.....                     | .8931                                          | .8941  | .8951  | .8961  | .8971  | .8981  | .8991  | .9001  | .9011  | .9021  |
| 14.....                     | .8934                                          | .8944  | .8954  | .8964  | .8974  | .8985  | .8995  | .9005  | .9015  | .9025  |
| 15.....                     | .8938                                          | .8948  | .8958  | .8968  | .8978  | .8988  | .8998  | .9008  | .9018  | .9028  |
| 16.....                     | .8942                                          | .8952  | .8962  | .8972  | .8982  | .8992  | .9002  | .9012  | .9022  | .9032  |
| 17.....                     | .8945                                          | .8955  | .8965  | .8975  | .8985  | .8995  | .9005  | .9015  | .9025  | .9035  |
| 18.....                     | .8949                                          | .8959  | .8969  | .8979  | .8989  | .8999  | .9009  | .9019  | .9029  | .9039  |
| 19.....                     | .8953                                          | .8963  | .8973  | .8983  | .8993  | .9003  | .9013  | .9023  | .9033  | .9043  |
| 20.....                     | .8956                                          | .8966  | .8976  | .8986  | .8996  | .9006  | .9016  | .9026  | .9036  | .9046  |
| 21.....                     | .8960                                          | .8970  | .8980  | .8990  | .9000  | .9010  | .9020  | .9030  | .9040  | .9050  |
| 22.....                     | .8964                                          | .8974  | .8984  | .8994  | .9004  | .9014  | .9024  | .9034  | .9044  | .9054  |
| 23.....                     | .8967                                          | .8977  | .8987  | .8997  | .9007  | .9017  | .9027  | .9037  | .9047  | .9057  |
| 24.....                     | .8971                                          | .8981  | .8991  | .9001  | .9011  | .9021  | .9031  | .9041  | .9051  | .9061  |
| 25.....                     | .8974                                          | .8984  | .8994  | .9004  | .9014  | .9024  | .9034  | .9044  | .9054  | .9064  |
| 26.....                     | .8978                                          | .8988  | .8998  | .9008  | .9018  | .9028  | .9038  | .9048  | .9058  | .9068  |
| 27.....                     | .8982                                          | .8992  | .9002  | .9012  | .9022  | .9032  | .9042  | .9052  | .9062  | .9072  |
| 28.....                     | .8986                                          | .8996  | .9006  | .9016  | .9026  | .9036  | .9046  | .9056  | .9066  | .9076  |
| 29.....                     | .8990                                          | .9000  | .9010  | .9020  | .9030  | .9040  | .9050  | .9060  | .9070  | .9080  |
| 30.....                     | .8993                                          | .9003  | .9013  | .9023  | .9033  | .9043  | .9053  | .9063  | .9073  | .9083  |
| 31.....                     | .8997                                          | .9007  | .9017  | .9027  | .9037  | .9047  | .9057  | .9067  | .9077  | .9087  |
| 32.....                     | .9000                                          | .9010  | .9020  | .9030  | .9040  | .9050  | .9060  | .9070  | .9080  | .9090  |
| 33.....                     | .9004                                          | .9014  | .9024  | .9034  | .9044  | .9054  | .9064  | .9074  | .9084  | .9094  |
| 34.....                     | .9007                                          | .9017  | .9027  | .9037  | .9047  | .9057  | .9067  | .9077  | .9087  | .9097  |
| 35.....                     | .9011                                          | .9021  | .9031  | .9041  | .9051  | .9061  | .9071  | .9081  | .9091  | .9101  |
| 36.....                     | .9015                                          | .9025  | .9035  | .9045  | .9055  | .9065  | .9075  | .9085  | .9095  | .9105  |
| 37.....                     | .9018                                          | .9028  | .9038  | .9048  | .9058  | .9068  | .9078  | .9088  | .9098  | .9108  |
| 38.....                     | .9022                                          | .9032  | .9042  | .9052  | .9062  | .9072  | .9082  | .9092  | .9102  | .9112  |
| 39.....                     | .9025                                          | .9035  | .9045  | .9055  | .9065  | .9075  | .9085  | .9095  | .9105  | .9115  |
| 40.....                     | .9029                                          | .9039  | .9049  | .9059  | .9069  | .9079  | .9089  | .9099  | .9109  | .9119  |
| 41.....                     | .9032                                          | .9042  | .9052  | .9062  | .9072  | .9082  | .9092  | .9102  | .9112  | .9122  |
| 42.....                     | .9036                                          | .9046  | .9056  | .9066  | .9076  | .9086  | .9096  | .9106  | .9116  | .9126  |
| 43.....                     | .9040                                          | .9050  | .9060  | .9070  | .9080  | .9090  | .9100  | .9110  | .9120  | .9130  |
| 44.....                     | .9043                                          | .9053  | .9063  | .9073  | .9083  | .9093  | .9103  | .9113  | .9123  | .9133  |
| 45.....                     | .9047                                          | .9057  | .9067  | .9077  | .9087  | .9097  | .9107  | .9117  | .9127  | .9137  |
| 46.....                     | .9050                                          | .9060  | .9070  | .9080  | .9090  | .9100  | .9110  | .9120  | .9130  | .9140  |
| 47.....                     | .9054                                          | .9064  | .9074  | .9084  | .9094  | .9104  | .9114  | .9124  | .9134  | .9144  |
| 48.....                     | .9057                                          | .9067  | .9077  | .9087  | .9097  | .9107  | .9117  | .9127  | .9137  | .9147  |
| 49.....                     | .9061                                          | .9071  | .9081  | .9091  | .9101  | .9111  | .9121  | .9131  | .9141  | .9151  |
| 50.....                     | .9064                                          | .9074  | .9084  | .9094  | .9104  | .9114  | .9124  | .9134  | .9144  | .9154  |
| 51.....                     | .9068                                          | .9078  | .9088  | .9098  | .9108  | .9118  | .9128  | .9138  | .9148  | .9158  |
| 52.....                     | .9072                                          | .9082  | .9092  | .9102  | .9112  | .9122  | .9132  | .9142  | .9152  | .9162  |
| 53.....                     | .9075                                          | .9085  | .9095  | .9105  | .9115  | .9125  | .9135  | .9145  | .9155  | .9165  |
| 54.....                     | .9079                                          | .9089  | .9099  | .9109  | .9119  | .9129  | .9139  | .9149  | .9159  | .9169  |
| 55.....                     | .9082                                          | .9092  | .9102  | .9112  | .9122  | .9132  | .9142  | .9152  | .9162  | .9172  |
| 56.....                     | .9086                                          | .9096  | .9106  | .9116  | .9126  | .9136  | .9146  | .9156  | .9166  | .9176  |
| 57.....                     | .9090                                          | .9100  | .9110  | .9120  | .9130  | .9140  | .9150  | .9160  | .9170  | .9180  |
| 58.....                     | .9093                                          | .9103  | .9113  | .9123  | .9133  | .9143  | .9153  | .9163  | .9173  | .9183  |
| 59.....                     | .9097                                          | .9107  | .9117  | .9127  | .9137  | .9147  | .9157  | .9167  | .9177  | .9187  |
| 60.....                     | .9100                                          | .9110  | .9120  | .9130  | .9140  | .9150  | .9160  | .9170  | .9180  | .9190  |
| 61.....                     | .9104                                          | .9114  | .9124  | .9134  | .9144  | .9154  | .9164  | .9174  | .9184  | .9194  |
| 62.....                     | .9107                                          | .9117  | .9127  | .9137  | .9147  | .9157  | .9167  | .9177  | .9187  | .9197  |
| 63.....                     | .9110                                          | .9120  | .9130  | .9140  | .9150  | .9160  | .9170  | .9180  | .9190  | .9200  |
| 64.....                     | .9114                                          | .9124  | .9134  | .9144  | .9154  | .9164  | .9174  | .9184  | .9194  | .9204  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.910                                          | 0.911  | 0.912  | 0.913  | 0.914  | 0.915  | 0.916  | 0.917  | 0.918  | 0.919  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                     | 0.9118                                         | 0.9128 | 0.9138 | 0.9148 | 0.9158 | 0.9168 | 0.9178 | 0.9188 | 0.9198 | 0.9208 |
| 66.....                     | .9121                                          | .9131  | .9141  | .9151  | .9161  | .9171  | .9181  | .9191  | .9201  | .9211  |
| 67.....                     | .9125                                          | .9135  | .9145  | .9155  | .9165  | .9175  | .9185  | .9195  | .9205  | .9215  |
| 68.....                     | .9128                                          | .9138  | .9148  | .9158  | .9168  | .9178  | .9188  | .9198  | .9208  | .9218  |
| 69.....                     | .9132                                          | .9142  | .9152  | .9162  | .9172  | .9182  | .9192  | .9202  | .9212  | .9222  |
| 70.....                     | .9136                                          | .9146  | .9156  | .9166  | .9176  | .9185  | .9195  | .9205  | .9215  | .9225  |
| 71.....                     | .9139                                          | .9149  | .9159  | .9169  | .9179  | .9189  | .9199  | .9209  | .9219  | .9229  |
| 72.....                     | .9143                                          | .9153  | .9163  | .9173  | .9183  | .9192  | .9202  | .9212  | .9222  | .9232  |
| 73.....                     | .9147                                          | .9157  | .9167  | .9177  | .9187  | .9196  | .9206  | .9216  | .9226  | .9236  |
| 74.....                     | .9150                                          | .9160  | .9170  | .9180  | .9190  | .9200  | .9210  | .9220  | .9230  | .9240  |
| 75.....                     | .9154                                          | .9164  | .9174  | .9184  | .9194  | .9203  | .9213  | .9223  | .9233  | .9243  |
| 76.....                     | .9157                                          | .9167  | .9177  | .9187  | .9197  | .9207  | .9217  | .9227  | .9237  | .9247  |
| 77.....                     | .9160                                          | .9170  | .9180  | .9190  | .9200  | .9210  | .9220  | .9230  | .9240  | .9250  |
| 78.....                     | .9164                                          | .9174  | .9184  | .9194  | .9204  | .9214  | .9224  | .9234  | .9244  | .9254  |
| 79.....                     | .9168                                          | .9178  | .9188  | .9198  | .9208  | .9218  | .9228  | .9238  | .9248  | .9258  |
| 80.....                     | .9171                                          | .9181  | .9191  | .9201  | .9211  | .9221  | .9231  | .9241  | .9251  | .9261  |
| 81.....                     | .9175                                          | .9185  | .9195  | .9205  | .9215  | .9225  | .9235  | .9245  | .9255  | .9265  |
| 82.....                     | .9179                                          | .9189  | .9199  | .9209  | .9219  | .9229  | .9239  | .9249  | .9259  | .9269  |
| 83.....                     | .9182                                          | .9192  | .9202  | .9212  | .9222  | .9232  | .9242  | .9252  | .9262  | .9272  |
| 84.....                     | .9185                                          | .9195  | .9205  | .9215  | .9225  | .9235  | .9245  | .9255  | .9265  | .9275  |
| 85.....                     | .9189                                          | .9199  | .9209  | .9219  | .9229  | .9239  | .9249  | .9259  | .9269  | .9279  |
| 86.....                     | .9192                                          | .9202  | .9212  | .9222  | .9232  | .9242  | .9252  | .9262  | .9272  | .9282  |
| 87.....                     | .9196                                          | .9206  | .9216  | .9226  | .9236  | .9246  | .9256  | .9266  | .9276  | .9286  |
| 88.....                     | .9199                                          | .9209  | .9219  | .9229  | .9239  | .9249  | .9259  | .9269  | .9279  | .9289  |
| 89.....                     | .9203                                          | .9213  | .9223  | .9233  | .9243  | .9253  | .9263  | .9273  | .9283  | .9293  |
| 90.....                     | .9206                                          | .9216  | .9226  | .9236  | .9246  | .9256  | .9266  | .9276  | .9286  | .9296  |
| 91.....                     | .9210                                          | .9220  | .9230  | .9240  | .9250  | .9260  | .9270  | .9280  | .9290  | .9300  |
| 92.....                     | .9214                                          | .9224  | .9234  | .9244  | .9254  | .9264  | .9274  | .9284  | .9294  | .9304  |
| 93.....                     | .9217                                          | .9227  | .9237  | .9247  | .9257  | .9267  | .9277  | .9287  | .9297  | .9307  |
| 94.....                     | .9220                                          | .9230  | .9240  | .9250  | .9260  | .9270  | .9280  | .9290  | .9300  | .9310  |
| 95.....                     | .9223                                          | .9233  | .9243  | .9253  | .9263  | .9273  | .9283  | .9293  | .9303  | .9313  |
| 96.....                     | .9227                                          | .9237  | .9247  | .9267  | .9267  | .9277  | .9287  | .9297  | .9307  | .9317  |
| 97.....                     | .9230                                          | .9240  | .9250  | .9260  | .9270  | .9280  | .9290  | .9300  | .9310  | .9320  |
| 98.....                     | .9234                                          | .9244  | .9254  | .9264  | .9274  | .9284  | .9294  | .9304  | .9314  | .9324  |
| 99.....                     | .9237                                          | .9247  | .9257  | .9267  | .9277  | .9287  | .9297  | .9307  | .9317  | .9327  |
| 100.....                    | .9241                                          | .9251  | .9261  | .9271  | .9281  | .9290  | .9300  | .9310  | .9320  | .9330  |
| 101.....                    | .9244                                          | .9254  | .9264  | .9274  | .9284  | .9294  | .9304  | .9314  | .9324  | .9334  |
| 102.....                    | .9247                                          | .9257  | .9267  | .9277  | .9287  | .9297  | .9307  | .9317  | .9327  | .9337  |
| 103.....                    | .9251                                          | .9261  | .9271  | .9281  | .9291  | .9301  | .9311  | .9321  | .9331  | .9341  |
| 104.....                    | .9255                                          | .9265  | .9275  | .9285  | .9295  | .9304  | .9314  | .9324  | .9334  | .9344  |
| 105.....                    | .9258                                          | .9268  | .9278  | .9288  | .9298  | .9307  | .9317  | .9327  | .9337  | .9347  |
| 106.....                    | .9261                                          | .9271  | .9281  | .9291  | .9301  | .9310  | .9320  | .9330  | .9340  | .9350  |
| 107.....                    | .9264                                          | .9274  | .9284  | .9294  | .9304  | .9313  | .9323  | .9333  | .9343  | .9353  |
| 108.....                    | .9268                                          | .9278  | .9288  | .9298  | .9308  | .9317  | .9327  | .9337  | .9347  | .9357  |
| 109.....                    | .9272                                          | .9282  | .9292  | .9302  | .9312  | .9321  | .9331  | .9341  | .9351  | .9361  |
| 110.....                    | .9275                                          | .9285  | .9295  | .9305  | .9315  | .9324  | .9334  | .9344  | .9354  | .9364  |
| 111.....                    | .9278                                          | .9288  | .9298  | .9308  | .9318  | .9327  | .9337  | .9347  | .9357  | .9367  |
| 112.....                    | .9282                                          | .9292  | .9302  | .9312  | .9322  | .9331  | .9341  | .9351  | .9361  | .9371  |
| 113.....                    | .9286                                          | .9296  | .9306  | .9316  | .9326  | .9335  | .9345  | .9355  | .9365  | .9375  |
| 114.....                    | .9289                                          | .9299  | .9309  | .9319  | .9329  | .9338  | .9348  | .9358  | .9368  | .9378  |
| 115.....                    | .9292                                          | .9302  | .9312  | .9322  | .9332  | .9341  | .9351  | .9361  | .9371  | .9381  |
| 116.....                    | .9295                                          | .9305  | .9315  | .9325  | .9335  | .9344  | .9354  | .9364  | .9374  | .9384  |
| 117.....                    | .9298                                          | .9308  | .9318  | .9328  | .9338  | .9347  | .9357  | .9367  | .9377  | .9387  |
| 118.....                    | .9302                                          | .9312  | .9322  | .9332  | .9342  | .9351  | .9361  | .9371  | .9381  | .9391  |
| 119.....                    | .9305                                          | .9315  | .9325  | .9335  | .9345  | .9354  | .9364  | .9374  | .9384  | .9394  |
| 120.....                    | .9309                                          | .9319  | .9329  | .9339  | .9349  | .9358  | .9368  | .9378  | .9388  | .9398  |
| 121.....                    | .9313                                          | .9323  | .9333  | .9343  | .9353  | .9362  | .9372  | .9382  | .9392  | .9402  |
| 122.....                    | .9317                                          | .9327  | .9337  | .9347  | .9357  | .9366  | .9376  | .9386  | .9396  | .9406  |
| 123.....                    | .9320                                          | .9330  | .9340  | .9350  | .9360  | .9369  | .9379  | .9389  | .9399  | .9409  |
| 124.....                    | .9323                                          | .9333  | .9343  | .9353  | .9363  | .9372  | .9382  | .9392  | .9402  | .9412  |
| 125.....                    | .9326                                          | .9336  | .9346  | .9356  | .9366  | .9375  | .9385  | .9395  | .9405  | .9415  |
| 126.....                    | .9330                                          | .9340  | .9350  | .9360  | .9370  | .9379  | .9389  | .9399  | .9409  | .9419  |
| 127.....                    | .9333                                          | .9343  | .9353  | .9363  | .9373  | .9382  | .9392  | .9402  | .9412  | .9422  |
| 128.....                    | .9336                                          | .9346  | .9356  | .9366  | .9376  | .9385  | .9395  | .9405  | .9415  | .9425  |
| 129.....                    | .9340                                          | .9350  | .9360  | .9370  | .9380  | .9389  | .9399  | .9409  | .9419  | .9429  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in ° F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 0.910                                          | 0.911  | 0.912  | 0.913  | 0.914  | 0.915  | 0.916  | 0.917  | 0.918  | 0.919  |
|                              | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 130.....                     | 0.9344                                         | 0.9354 | 0.9364 | 0.9374 | 0.9384 | 0.9393 | 0.9403 | 0.9413 | 0.9423 | 0.9433 |
| 131.....                     | .9348                                          | .9358  | .9368  | .9378  | .9388  | .9397  | .9407  | .9417  | .9427  | .9437  |
| 132.....                     | .9351                                          | .9361  | .9371  | .9381  | .9391  | .9400  | .9410  | .9420  | .9430  | .9440  |
| 133.....                     | .9354                                          | .9364  | .9374  | .9384  | .9394  | .9403  | .9413  | .9423  | .9433  | .9443  |
| 134.....                     | .9357                                          | .9367  | .9377  | .9387  | .9397  | .9406  | .9416  | .9426  | .9436  | .9446  |
| 135.....                     | .9360                                          | .9370  | .9380  | .9390  | .9400  | .9409  | .9419  | .9429  | .9439  | .9449  |
| 136.....                     | .9364                                          | .9374  | .9384  | .9394  | .9404  | .9413  | .9423  | .9433  | .9443  | .9453  |
| 137.....                     | .9367                                          | .9377  | .9387  | .9397  | .9407  | .9416  | .9426  | .9436  | .9446  | .9456  |
| 138.....                     | .9371                                          | .9381  | .9391  | .9401  | .9411  | .9420  | .9430  | .9440  | .9450  | .9460  |
| 139.....                     | .9374                                          | .9384  | .9394  | .9404  | .9414  | .9423  | .9433  | .9443  | .9453  | .9463  |
| 140.....                     | .9378                                          | .9388  | .9398  | .9408  | .9418  | .9427  | .9437  | .9447  | .9457  | .9467  |
| 141.....                     | .9381                                          | .9391  | .9401  | .9411  | .9421  | .9430  | .9440  | .9450  | .9460  | .9470  |
| 142.....                     | .9384                                          | .9394  | .9404  | .9414  | .9424  | .9433  | .9443  | .9453  | .9463  | .9473  |
| 143.....                     | .9387                                          | .9397  | .9407  | .9417  | .9427  | .9436  | .9446  | .9456  | .9466  | .9476  |
| 144.....                     | .9391                                          | .9401  | .9411  | .9421  | .9431  | .9440  | .9450  | .9460  | .9470  | .9480  |
| 145.....                     | .9394                                          | .9404  | .9414  | .9424  | .9434  | .9443  | .9453  | .9463  | .9473  | .9483  |
| 146.....                     | .9397                                          | .9407  | .9417  | .9427  | .9437  | .9446  | .9456  | .9466  | .9476  | .9486  |
| 147.....                     | .9401                                          | .9411  | .9421  | .9431  | .9441  | .9450  | .9460  | .9470  | .9480  | .9490  |
| 148.....                     | .9405                                          | .9415  | .9425  | .9435  | .9445  | .9454  | .9464  | .9474  | .9484  | .9494  |
| 149.....                     | .9408                                          | .9418  | .9428  | .9438  | .9448  | .9458  | .9468  | .9478  | .9488  | .9498  |
| 150.....                     | .9411                                          | .9421  | .9431  | .9441  | .9451  | .9461  | .9471  | .9481  | .9491  | .9501  |
| 151.....                     | .9415                                          | .9425  | .9435  | .9445  | .9455  | .9464  | .9474  | .9484  | .9494  | .9504  |
| 152.....                     | .9418                                          | .9428  | .9438  | .9448  | .9458  | .9467  | .9477  | .9487  | .9497  | .9507  |
| 153.....                     | .9421                                          | .9431  | .9441  | .9451  | .9461  | .9470  | .9480  | .9490  | .9500  | .9510  |
| 154.....                     | .9425                                          | .9435  | .9445  | .9455  | .9465  | .9474  | .9484  | .9494  | .9504  | .9514  |
| 155.....                     | .9428                                          | .9438  | .9448  | .9458  | .9468  | .9477  | .9487  | .9497  | .9507  | .9517  |
| 156.....                     | .9432                                          | .9442  | .9452  | .9462  | .9472  | .9481  | .9491  | .9501  | .9511  | .9521  |
| 157.....                     | .9435                                          | .9445  | .9455  | .9465  | .9475  | .9484  | .9494  | .9504  | .9514  | .9524  |
| 158.....                     | .9439                                          | .9449  | .9459  | .9469  | .9479  | .9488  | .9498  | .9508  | .9518  | .9528  |
| 159.....                     | .9442                                          | .9452  | .9462  | .9472  | .9482  | .9491  | .9501  | .9511  | .9521  | .9531  |
| 160.....                     | .9445                                          | .9455  | .9465  | .9475  | .9485  | .9495  | .9505  | .9515  | .9525  | .9535  |
| 161.....                     | .9449                                          | .9459  | .9469  | .9479  | .9489  | .9498  | .9508  | .9518  | .9528  | .9538  |
| 162.....                     | .9452                                          | .9462  | .9472  | .9482  | .9492  | .9501  | .9511  | .9521  | .9531  | .9541  |
| 163.....                     | .9455                                          | .9465  | .9475  | .9485  | .9495  | .9504  | .9514  | .9524  | .9534  | .9544  |
| 164.....                     | .9459                                          | .9469  | .9479  | .9489  | .9499  | .9508  | .9518  | .9528  | .9538  | .9548  |
| 165.....                     | .9462                                          | .9472  | .9482  | .9492  | .9502  | .9511  | .9521  | .9531  | .9541  | .9551  |
| 166.....                     | .9465                                          | .9475  | .9485  | .9495  | .9505  | .9515  | .9525  | .9535  | .9545  | .9555  |
| 167.....                     | .9469                                          | .9479  | .9489  | .9499  | .9509  | .9519  | .9529  | .9539  | .9549  | .9559  |
| 168.....                     | .9472                                          | .9482  | .9492  | .9502  | .9512  | .9522  | .9532  | .9542  | .9552  | .9562  |
| 169.....                     | .9476                                          | .9486  | .9496  | .9506  | .9516  | .9525  | .9535  | .9545  | .9555  | .9565  |
| 170.....                     | .9479                                          | .9489  | .9499  | .9509  | .9519  | .9528  | .9538  | .9548  | .9558  | .9568  |
| 171.....                     | .9482                                          | .9492  | .9502  | .9512  | .9522  | .9531  | .9541  | .9551  | .9561  | .9571  |
| 172.....                     | .9485                                          | .9495  | .9505  | .9515  | .9525  | .9534  | .9544  | .9554  | .9564  | .9574  |
| 173.....                     | .9488                                          | .9498  | .9508  | .9518  | .9528  | .9537  | .9547  | .9557  | .9567  | .9577  |
| 174.....                     | .9492                                          | .9502  | .9512  | .9522  | .9532  | .9541  | .9551  | .9561  | .9571  | .9581  |
| 175.....                     | .9495                                          | .9505  | .9515  | .9525  | .9535  | .9544  | .9554  | .9564  | .9574  | .9584  |
| 176.....                     | .9499                                          | .9509  | .9519  | .9529  | .9539  | .9548  | .9558  | .9568  | .9578  | .9588  |
| 177.....                     | .9502                                          | .9512  | .9522  | .9532  | .9542  | .9551  | .9561  | .9571  | .9581  | .9591  |
| 178.....                     | .9505                                          | .9515  | .9525  | .9535  | .9545  | .9554  | .9564  | .9574  | .9584  | .9594  |
| 179.....                     | .9508                                          | .9518  | .9528  | .9538  | .9548  | .9557  | .9567  | .9577  | .9587  | .9597  |
| 180.....                     | .9511                                          | .9521  | .9531  | .9541  | .9551  | .9560  | .9570  | .9580  | .9590  | .9600  |
| 181.....                     | .9514                                          | .9524  | .9534  | .9544  | .9554  | .9563  | .9573  | .9583  | .9593  | .9603  |
| 182.....                     | .9518                                          | .9528  | .9538  | .9548  | .9558  | .9567  | .9577  | .9587  | .9597  | .9607  |
| 183.....                     | .9521                                          | .9531  | .9541  | .9551  | .9561  | .9570  | .9580  | .9590  | .9600  | .9610  |
| 184.....                     | .9524                                          | .9534  | .9544  | .9554  | .9564  | .9573  | .9583  | .9593  | .9603  | .9613  |
| 185.....                     | .9527                                          | .9537  | .9547  | .9557  | .9567  | .9576  | .9586  | .9596  | .9606  | .9616  |
| 186.....                     | .9530                                          | .9540  | .9550  | .9560  | .9570  | .9579  | .9589  | .9599  | .9609  | .9619  |
| 187.....                     | .9534                                          | .9544  | .9554  | .9564  | .9574  | .9583  | .9593  | .9603  | .9613  | .9623  |
| 188.....                     | .9537                                          | .9547  | .9557  | .9567  | .9577  | .9586  | .9596  | .9606  | .9616  | .9626  |
| 189.....                     | .9540                                          | .9550  | .9560  | .9570  | .9580  | .9589  | .9599  | .9609  | .9619  | .9629  |
| 190.....                     | .9544                                          | .9554  | .9564  | .9574  | .9584  | .9593  | .9603  | .9613  | .9623  | .9633  |
| 191.....                     | .9547                                          | .9557  | .9567  | .9577  | .9587  | .9596  | .9606  | .9616  | .9626  | .9636  |
| 192.....                     | .9550                                          | .9560  | .9570  | .9580  | .9590  | .9599  | .9609  | .9619  | .9629  | .9639  |
| 193.....                     | .9554                                          | .9564  | .9574  | .9584  | .9594  | .9603  | .9613  | .9623  | .9633  | .9643  |
| 194.....                     | .9557                                          | .9567  | .9577  | .9587  | .9597  | .9606  | .9616  | .9626  | .9636  | .9646  |
| 195.....                     | .9560                                          | .9570  | .9580  | .9590  | .9600  | .9609  | .9619  | .9629  | .9639  | .9649  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.920                                          | 0.921  | 0.922  | 0.923  | 0.924  | 0.925  | 0.926  | 0.927  | 0.928  | 0.929  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.8982                                         | 0.8992 | 0.9002 | 0.9012 | 0.9022 | 0.9033 | 0.9043 | 0.9053 | 0.9063 | 0.9073 |
| 1.....                      | .8986                                          | .8996  | .9006  | .9016  | .9026  | .9037  | .9047  | .9057  | .9067  | .9077  |
| 2.....                      | .8990                                          | .9000  | .9010  | .9020  | .9030  | .9041  | .9051  | .9061  | .9071  | .9081  |
| 3.....                      | .8994                                          | .9004  | .9014  | .9024  | .9034  | .9045  | .9055  | .9065  | .9075  | .9085  |
| 4.....                      | .8998                                          | .9008  | .9018  | .9028  | .9038  | .9049  | .9059  | .9069  | .9079  | .9089  |
| 5.....                      | .9002                                          | .9012  | .9022  | .9032  | .9042  | .9052  | .9062  | .9072  | .9082  | .9092  |
| 6.....                      | .9006                                          | .9016  | .9026  | .9036  | .9046  | .9056  | .9066  | .9076  | .9086  | .9096  |
| 7.....                      | .9010                                          | .9020  | .9030  | .9040  | .9050  | .9060  | .9070  | .9080  | .9090  | .9100  |
| 8.....                      | .9013                                          | .9023  | .9033  | .9043  | .9053  | .9063  | .9073  | .9083  | .9093  | .9103  |
| 9.....                      | .9017                                          | .9027  | .9037  | .9047  | .9057  | .9067  | .9077  | .9087  | .9097  | .9107  |
| 10.....                     | .9021                                          | .9031  | .9041  | .9051  | .9061  | .9071  | .9081  | .9091  | .9101  | .9111  |
| 11.....                     | .9024                                          | .9034  | .9044  | .9054  | .9064  | .9074  | .9084  | .9094  | .9104  | .9114  |
| 12.....                     | .9028                                          | .9038  | .9048  | .9058  | .9068  | .9078  | .9088  | .9098  | .9108  | .9118  |
| 13.....                     | .9031                                          | .9041  | .9051  | .9061  | .9071  | .9081  | .9091  | .9101  | .9111  | .9121  |
| 14.....                     | .9035                                          | .9045  | .9055  | .9065  | .9075  | .9085  | .9095  | .9105  | .9115  | .9125  |
| 15.....                     | .9038                                          | .9048  | .9058  | .9068  | .9078  | .9088  | .9098  | .9108  | .9118  | .9128  |
| 16.....                     | .9042                                          | .9052  | .9062  | .9072  | .9082  | .9092  | .9102  | .9112  | .9122  | .9132  |
| 17.....                     | .9045                                          | .9055  | .9065  | .9075  | .9085  | .9095  | .9105  | .9115  | .9125  | .9135  |
| 18.....                     | .9049                                          | .9059  | .9069  | .9079  | .9089  | .9099  | .9109  | .9119  | .9129  | .9139  |
| 19.....                     | .9053                                          | .9063  | .9073  | .9083  | .9093  | .9103  | .9113  | .9123  | .9133  | .9143  |
| 20.....                     | .9056                                          | .9066  | .9076  | .9086  | .9096  | .9106  | .9116  | .9126  | .9136  | .9146  |
| 21.....                     | .9060                                          | .9070  | .9080  | .9090  | .9100  | .9110  | .9120  | .9130  | .9140  | .9150  |
| 22.....                     | .9064                                          | .9074  | .9084  | .9094  | .9104  | .9114  | .9124  | .9134  | .9144  | .9154  |
| 23.....                     | .9067                                          | .9077  | .9087  | .9097  | .9107  | .9117  | .9127  | .9137  | .9147  | .9157  |
| 24.....                     | .9071                                          | .9081  | .9091  | .9101  | .9111  | .9121  | .9131  | .9141  | .9151  | .9161  |
| 25.....                     | .9074                                          | .9084  | .9094  | .9104  | .9114  | .9124  | .9134  | .9144  | .9154  | .9164  |
| 26.....                     | .9078                                          | .9088  | .9098  | .9108  | .9118  | .9128  | .9138  | .9148  | .9158  | .9168  |
| 27.....                     | .9082                                          | .9092  | .9102  | .9112  | .9122  | .9132  | .9142  | .9152  | .9162  | .9172  |
| 28.....                     | .9086                                          | .9096  | .9106  | .9116  | .9126  | .9136  | .9146  | .9156  | .9166  | .9176  |
| 29.....                     | .9090                                          | .9100  | .9110  | .9120  | .9130  | .9140  | .9150  | .9160  | .9170  | .9180  |
| 30.....                     | .9093                                          | .9103  | .9113  | .9123  | .9133  | .9143  | .9153  | .9163  | .9173  | .9183  |
| 31.....                     | .9097                                          | .9107  | .9117  | .9127  | .9137  | .9147  | .9157  | .9167  | .9177  | .9187  |
| 32.....                     | .9100                                          | .9110  | .9120  | .9130  | .9140  | .9150  | .9160  | .9170  | .9180  | .9190  |
| 33.....                     | .9104                                          | .9114  | .9124  | .9134  | .9144  | .9154  | .9164  | .9174  | .9184  | .9194  |
| 34.....                     | .9107                                          | .9117  | .9127  | .9137  | .9147  | .9157  | .9167  | .9177  | .9187  | .9197  |
| 35.....                     | .9111                                          | .9121  | .9131  | .9141  | .9151  | .9161  | .9171  | .9181  | .9191  | .9201  |
| 36.....                     | .9114                                          | .9124  | .9134  | .9144  | .9154  | .9164  | .9174  | .9184  | .9194  | .9204  |
| 37.....                     | .9118                                          | .9128  | .9138  | .9148  | .9158  | .9168  | .9178  | .9188  | .9198  | .9208  |
| 38.....                     | .9122                                          | .9132  | .9142  | .9152  | .9162  | .9172  | .9182  | .9192  | .9202  | .9212  |
| 39.....                     | .9125                                          | .9135  | .9145  | .9155  | .9165  | .9175  | .9185  | .9195  | .9205  | .9215  |
| 40.....                     | .9129                                          | .9139  | .9149  | .9159  | .9169  | .9179  | .9189  | .9199  | .9209  | .9219  |
| 41.....                     | .9132                                          | .9142  | .9152  | .9162  | .9172  | .9182  | .9192  | .9202  | .9212  | .9222  |
| 42.....                     | .9136                                          | .9146  | .9156  | .9166  | .9176  | .9186  | .9196  | .9206  | .9216  | .9226  |
| 43.....                     | .9140                                          | .9150  | .9160  | .9170  | .9180  | .9190  | .9200  | .9210  | .9220  | .9230  |
| 44.....                     | .9143                                          | .9153  | .9163  | .9173  | .9183  | .9193  | .9203  | .9213  | .9223  | .9233  |
| 45.....                     | .9147                                          | .9157  | .9167  | .9177  | .9187  | .9197  | .9207  | .9217  | .9227  | .9237  |
| 46.....                     | .9150                                          | .9160  | .9170  | .9180  | .9190  | .9200  | .9210  | .9220  | .9230  | .9240  |
| 47.....                     | .9154                                          | .9164  | .9174  | .9184  | .9194  | .9204  | .9214  | .9224  | .9234  | .9244  |
| 48.....                     | .9157                                          | .9167  | .9177  | .9187  | .9197  | .9207  | .9217  | .9227  | .9237  | .9247  |
| 49.....                     | .9161                                          | .9171  | .9181  | .9191  | .9201  | .9211  | .9221  | .9231  | .9241  | .9251  |
| 50.....                     | .9164                                          | .9174  | .9184  | .9194  | .9204  | .9214  | .9224  | .9234  | .9244  | .9254  |
| 51.....                     | .9168                                          | .9178  | .9188  | .9198  | .9208  | .9218  | .9228  | .9238  | .9248  | .9258  |
| 52.....                     | .9172                                          | .9182  | .9192  | .9202  | .9212  | .9222  | .9232  | .9242  | .9252  | .9262  |
| 53.....                     | .9175                                          | .9185  | .9195  | .9205  | .9215  | .9225  | .9235  | .9245  | .9255  | .9265  |
| 54.....                     | .9179                                          | .9189  | .9199  | .9209  | .9219  | .9229  | .9239  | .9249  | .9259  | .9269  |
| 55.....                     | .9182                                          | .9192  | .9202  | .9212  | .9222  | .9232  | .9242  | .9252  | .9262  | .9272  |
| 56.....                     | .9186                                          | .9196  | .9206  | .9216  | .9226  | .9236  | .9246  | .9256  | .9266  | .9276  |
| 57.....                     | .9190                                          | .9200  | .9210  | .9220  | .9230  | .9240  | .9250  | .9260  | .9270  | .9280  |
| 58.....                     | .9193                                          | .9203  | .9213  | .9223  | .9233  | .9243  | .9253  | .9263  | .9273  | .9283  |
| 59.....                     | .9197                                          | .9207  | .9217  | .9227  | .9237  | .9247  | .9257  | .9267  | .9277  | .9287  |
| 60.....                     | .9200                                          | .9210  | .9220  | .9230  | .9240  | .9250  | .9260  | .9270  | .9280  | .9290  |
| 61.....                     | .9204                                          | .9214  | .9224  | .9234  | .9244  | .9254  | .9264  | .9274  | .9284  | .9294  |
| 62.....                     | .9207                                          | .9217  | .9227  | .9237  | .9247  | .9257  | .9267  | .9277  | .9287  | .9297  |
| 63.....                     | .9210                                          | .9220  | .9230  | .9240  | .9250  | .9260  | .9270  | .9280  | .9290  | .9300  |
| 64.....                     | .9214                                          | .9224  | .9234  | .9244  | .9254  | .9264  | .9274  | .9284  | .9294  | .9304  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed tempera-<br>ture in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|----------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                  | 0.920                                          | 0.921  | 0.922  | 0.923  | 0.924  | 0.925  | 0.926  | 0.927  | 0.928  | 0.929  |
|                                  | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                          | 0.9218                                         | 0.9228 | 0.9238 | 0.9248 | 0.9258 | 0.9268 | 0.9278 | 0.9288 | 0.9298 | 0.9308 |
| 66.....                          | .9221                                          | .9231  | .9241  | .9251  | .9261  | .9271  | .9281  | .9291  | .9301  | .9311  |
| 67.....                          | .9225                                          | .9235  | .9245  | .9255  | .9265  | .9275  | .9285  | .9295  | .9305  | .9315  |
| 68.....                          | .9228                                          | .9238  | .9248  | .9258  | .9268  | .9278  | .9288  | .9298  | .9308  | .9318  |
| 69.....                          | .9232                                          | .9242  | .9252  | .9262  | .9272  | .9282  | .9292  | .9302  | .9312  | .9322  |
| 70.....                          | .9235                                          | .9245  | .9255  | .9265  | .9275  | .9285  | .9295  | .9305  | .9315  | .9325  |
| 71.....                          | .9239                                          | .9249  | .9259  | .9269  | .9279  | .9289  | .9299  | .9309  | .9319  | .9329  |
| 72.....                          | .9242                                          | .9252  | .9262  | .9272  | .9282  | .9292  | .9302  | .9312  | .9322  | .9332  |
| 73.....                          | .9246                                          | .9256  | .9266  | .9276  | .9286  | .9296  | .9306  | .9316  | .9326  | .9336  |
| 74.....                          | .9250                                          | .9260  | .9270  | .9280  | .9290  | .9300  | .9310  | .9320  | .9330  | .9340  |
| 75.....                          | .9253                                          | .9263  | .9273  | .9283  | .9293  | .9303  | .9313  | .9323  | .9333  | .9343  |
| 76.....                          | .9257                                          | .9267  | .9277  | .9287  | .9297  | .9307  | .9317  | .9327  | .9337  | .9347  |
| 77.....                          | .9260                                          | .9270  | .9280  | .9290  | .9300  | .9310  | .9320  | .9330  | .9340  | .9350  |
| 78.....                          | .9264                                          | .9274  | .9284  | .9294  | .9304  | .9314  | .9324  | .9334  | .9344  | .9354  |
| 79.....                          | .9268                                          | .9278  | .9288  | .9298  | .9308  | .9317  | .9327  | .9337  | .9347  | .9357  |
| 80.....                          | .9271                                          | .9281  | .9291  | .9301  | .9311  | .9320  | .9330  | .9340  | .9350  | .9360  |
| 81.....                          | .9275                                          | .9285  | .9295  | .9305  | .9315  | .9324  | .9334  | .9344  | .9354  | .9364  |
| 82.....                          | .9279                                          | .9289  | .9299  | .9309  | .9319  | .9328  | .9338  | .9348  | .9358  | .9368  |
| 83.....                          | .9282                                          | .9292  | .9302  | .9312  | .9322  | .9331  | .9341  | .9351  | .9361  | .9371  |
| 84.....                          | .9285                                          | .9295  | .9305  | .9315  | .9325  | .9335  | .9345  | .9355  | .9365  | .9375  |
| 85.....                          | .9289                                          | .9299  | .9309  | .9319  | .9329  | .9339  | .9349  | .9359  | .9369  | .9379  |
| 86.....                          | .9292                                          | .9302  | .9312  | .9322  | .9332  | .9342  | .9352  | .9362  | .9372  | .9382  |
| 87.....                          | .9296                                          | .9306  | .9316  | .9326  | .9336  | .9346  | .9356  | .9366  | .9376  | .9386  |
| 88.....                          | .9299                                          | .9309  | .9319  | .9329  | .9339  | .9349  | .9359  | .9369  | .9379  | .9389  |
| 89.....                          | .9303                                          | .9313  | .9323  | .9333  | .9343  | .9353  | .9363  | .9373  | .9383  | .9393  |
| 90.....                          | .9306                                          | .9316  | .9326  | .9336  | .9346  | .9356  | .9366  | .9376  | .9386  | .9396  |
| 91.....                          | .9310                                          | .9320  | .9330  | .9340  | .9350  | .9360  | .9370  | .9380  | .9390  | .9400  |
| 92.....                          | .9314                                          | .9324  | .9334  | .9344  | .9354  | .9363  | .9373  | .9383  | .9393  | .9403  |
| 93.....                          | .9317                                          | .9327  | .9337  | .9347  | .9357  | .9367  | .9377  | .9387  | .9397  | .9407  |
| 94.....                          | .9320                                          | .9330  | .9340  | .9350  | .9360  | .9370  | .9380  | .9390  | .9400  | .9410  |
| 95.....                          | .9323                                          | .9333  | .9343  | .9353  | .9363  | .9373  | .9383  | .9393  | .9403  | .9413  |
| 96.....                          | .9327                                          | .9337  | .9347  | .9357  | .9367  | .9377  | .9387  | .9397  | .9407  | .9417  |
| 97.....                          | .9330                                          | .9340  | .9350  | .9360  | .9370  | .9380  | .9390  | .9400  | .9410  | .9420  |
| 98.....                          | .9334                                          | .9344  | .9354  | .9364  | .9374  | .9384  | .9394  | .9404  | .9414  | .9424  |
| 99.....                          | .9337                                          | .9347  | .9357  | .9367  | .9377  | .9387  | .9397  | .9407  | .9417  | .9427  |
| 100.....                         | .9340                                          | .9350  | .9360  | .9370  | .9380  | .9390  | .9400  | .9410  | .9420  | .9430  |
| 101.....                         | .9344                                          | .9354  | .9364  | .9374  | .9384  | .9394  | .9404  | .9414  | .9424  | .9434  |
| 102.....                         | .9347                                          | .9357  | .9367  | .9377  | .9387  | .9397  | .9407  | .9417  | .9427  | .9437  |
| 103.....                         | .9351                                          | .9361  | .9371  | .9381  | .9391  | .9400  | .9410  | .9420  | .9430  | .9440  |
| 104.....                         | .9354                                          | .9364  | .9374  | .9384  | .9394  | .9404  | .9414  | .9424  | .9434  | .9444  |
| 105.....                         | .9357                                          | .9367  | .9377  | .9387  | .9397  | .9407  | .9417  | .9427  | .9437  | .9447  |
| 106.....                         | .9360                                          | .9370  | .9380  | .9390  | .9400  | .9410  | .9420  | .9430  | .9440  | .9450  |
| 107.....                         | .9363                                          | .9373  | .9383  | .9393  | .9403  | .9413  | .9423  | .9433  | .9443  | .9453  |
| 108.....                         | .9367                                          | .9377  | .9387  | .9397  | .9407  | .9417  | .9427  | .9437  | .9447  | .9457  |
| 109.....                         | .9371                                          | .9381  | .9391  | .9401  | .9411  | .9420  | .9430  | .9440  | .9450  | .9460  |
| 110.....                         | .9374                                          | .9384  | .9394  | .9404  | .9414  | .9424  | .9434  | .9444  | .9454  | .9464  |
| 111.....                         | .9377                                          | .9387  | .9397  | .9407  | .9417  | .9427  | .9437  | .9447  | .9457  | .9467  |
| 112.....                         | .9381                                          | .9391  | .9401  | .9411  | .9421  | .9431  | .9441  | .9451  | .9461  | .9471  |
| 113.....                         | .9385                                          | .9395  | .9405  | .9415  | .9425  | .9435  | .9445  | .9455  | .9465  | .9475  |
| 114.....                         | .9388                                          | .9398  | .9408  | .9418  | .9428  | .9438  | .9448  | .9458  | .9468  | .9478  |
| 115.....                         | .9391                                          | .9401  | .9411  | .9421  | .9431  | .9441  | .9451  | .9461  | .9471  | .9481  |
| 116.....                         | .9394                                          | .9404  | .9414  | .9424  | .9434  | .9444  | .9454  | .9464  | .9474  | .9484  |
| 117.....                         | .9397                                          | .9407  | .9417  | .9427  | .9437  | .9447  | .9457  | .9467  | .9477  | .9487  |
| 118.....                         | .9401                                          | .9411  | .9421  | .9431  | .9441  | .9450  | .9460  | .9470  | .9480  | .9490  |
| 119.....                         | .9404                                          | .9414  | .9424  | .9434  | .9444  | .9454  | .9464  | .9474  | .9484  | .9494  |
| 120.....                         | .9408                                          | .9418  | .9428  | .9438  | .9448  | .9458  | .9468  | .9478  | .9488  | .9498  |
| 121.....                         | .9412                                          | .9422  | .9432  | .9442  | .9452  | .9462  | .9472  | .9482  | .9492  | .9502  |
| 122.....                         | .9416                                          | .9426  | .9436  | .9446  | .9456  | .9466  | .9476  | .9486  | .9496  | .9506  |
| 123.....                         | .9419                                          | .9429  | .9439  | .9449  | .9459  | .9469  | .9479  | .9489  | .9499  | .9509  |
| 124.....                         | .9422                                          | .9432  | .9442  | .9452  | .9462  | .9472  | .9482  | .9492  | .9502  | .9512  |
| 125.....                         | .9425                                          | .9435  | .9445  | .9455  | .9465  | .9475  | .9485  | .9495  | .9505  | .9515  |
| 126.....                         | .9429                                          | .9439  | .9449  | .9459  | .9469  | .9478  | .9488  | .9498  | .9508  | .9518  |
| 127.....                         | .9432                                          | .9442  | .9452  | .9462  | .9472  | .9481  | .9491  | .9501  | .9511  | .9521  |
| 128.....                         | .9435                                          | .9445  | .9455  | .9465  | .9475  | .9485  | .9495  | .9505  | .9515  | .9525  |
| 129.....                         | .9439                                          | .9449  | .9459  | .9469  | .9479  | .9489  | .9499  | .9509  | .9519  | .9529  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in ° F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 0.920                                          | 0.921  | 0.922  | 0.923  | 0.924  | 0.925  | 0.926  | 0.927  | 0.928  | 0.929  |
|                              | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 130.....                     | 0.9443                                         | 0.9453 | 0.9463 | 0.9473 | 0.9483 | 0.9493 | 0.9503 | 0.9513 | 0.9523 | 0.9533 |
| 131.....                     | .9447                                          | .9457  | .9467  | .9477  | .9487  | .9497  | .9507  | .9517  | .9527  | .9537  |
| 132.....                     | .9450                                          | .9460  | .9470  | .9480  | .9490  | .9500  | .9510  | .9520  | .9530  | .9540  |
| 133.....                     | .9453                                          | .9463  | .9473  | .9483  | .9493  | .9503  | .9513  | .9523  | .9533  | .9543  |
| 134.....                     | .9456                                          | .9466  | .9476  | .9486  | .9496  | .9506  | .9516  | .9526  | .9536  | .9546  |
| 135.....                     | .9459                                          | .9469  | .9479  | .9489  | .9499  | .9509  | .9519  | .9529  | .9539  | .9549  |
| 136.....                     | .9463                                          | .9473  | .9483  | .9493  | .9503  | .9512  | .9522  | .9532  | .9542  | .9552  |
| 137.....                     | .9466                                          | .9476  | .9486  | .9496  | .9506  | .9515  | .9525  | .9535  | .9545  | .9555  |
| 138.....                     | .9470                                          | .9480  | .9490  | .9500  | .9510  | .9519  | .9529  | .9539  | .9549  | .9559  |
| 139.....                     | .9473                                          | .9483  | .9493  | .9503  | .9513  | .9523  | .9533  | .9543  | .9553  | .9563  |
| 140.....                     | .9477                                          | .9487  | .9497  | .9507  | .9517  | .9527  | .9537  | .9547  | .9557  | .9567  |
| 141.....                     | .9480                                          | .9490  | .9500  | .9510  | .9520  | .9530  | .9540  | .9550  | .9560  | .9570  |
| 142.....                     | .9483                                          | .9493  | .9503  | .9513  | .9523  | .9533  | .9543  | .9553  | .9563  | .9573  |
| 143.....                     | .9486                                          | .9496  | .9506  | .9516  | .9526  | .9536  | .9546  | .9556  | .9566  | .9576  |
| 144.....                     | .9490                                          | .9500  | .9510  | .9520  | .9530  | .9539  | .9549  | .9559  | .9569  | .9579  |
| 145.....                     | .9493                                          | .9503  | .9513  | .9523  | .9533  | .9542  | .9552  | .9562  | .9572  | .9582  |
| 146.....                     | .9496                                          | .9506  | .9516  | .9526  | .9536  | .9545  | .9555  | .9565  | .9575  | .9585  |
| 147.....                     | .9500                                          | .9510  | .9520  | .9530  | .9540  | .9549  | .9559  | .9569  | .9579  | .9589  |
| 148.....                     | .9504                                          | .9514  | .9524  | .9534  | .9544  | .9553  | .9563  | .9573  | .9583  | .9593  |
| 149.....                     | .9508                                          | .9518  | .9528  | .9538  | .9548  | .9557  | .9567  | .9577  | .9587  | .9597  |
| 150.....                     | .9511                                          | .9521  | .9531  | .9541  | .9551  | .9560  | .9570  | .9580  | .9590  | .9600  |
| 151.....                     | .9514                                          | .9524  | .9534  | .9544  | .9554  | .9564  | .9574  | .9584  | .9594  | .9604  |
| 152.....                     | .9517                                          | .9527  | .9537  | .9547  | .9557  | .9567  | .9577  | .9587  | .9597  | .9607  |
| 153.....                     | .9520                                          | .9530  | .9540  | .9550  | .9560  | .9570  | .9580  | .9590  | .9600  | .9610  |
| 154.....                     | .9524                                          | .9534  | .9544  | .9554  | .9564  | .9573  | .9583  | .9593  | .9603  | .9613  |
| 155.....                     | .9527                                          | .9537  | .9547  | .9557  | .9567  | .9577  | .9587  | .9597  | .9607  | .9617  |
| 156.....                     | .9531                                          | .9541  | .9551  | .9561  | .9571  | .9581  | .9591  | .9601  | .9611  | .9621  |
| 157.....                     | .9534                                          | .9544  | .9554  | .9564  | .9574  | .9584  | .9594  | .9604  | .9614  | .9624  |
| 158.....                     | .9538                                          | .9548  | .9558  | .9568  | .9578  | .9588  | .9598  | .9608  | .9618  | .9628  |
| 159.....                     | .9541                                          | .9551  | .9561  | .9571  | .9581  | .9591  | .9601  | .9611  | .9621  | .9631  |
| 160.....                     | .9545                                          | .9555  | .9565  | .9575  | .9585  | .9594  | .9604  | .9614  | .9624  | .9634  |
| 161.....                     | .9548                                          | .9558  | .9568  | .9578  | .9588  | .9598  | .9608  | .9618  | .9628  | .9638  |
| 162.....                     | .9551                                          | .9561  | .9571  | .9581  | .9591  | .9601  | .9611  | .9621  | .9631  | .9641  |
| 163.....                     | .9554                                          | .9564  | .9574  | .9584  | .9594  | .9604  | .9614  | .9624  | .9634  | .9644  |
| 164.....                     | .9558                                          | .9568  | .9578  | .9588  | .9598  | .9607  | .9617  | .9627  | .9637  | .9647  |
| 165.....                     | .9561                                          | .9571  | .9581  | .9591  | .9601  | .9611  | .9621  | .9631  | .9641  | .9651  |
| 166.....                     | .9565                                          | .9575  | .9585  | .9595  | .9605  | .9614  | .9624  | .9634  | .9644  | .9654  |
| 167.....                     | .9569                                          | .9579  | .9589  | .9599  | .9609  | .9618  | .9628  | .9638  | .9648  | .9658  |
| 168.....                     | .9572                                          | .9582  | .9592  | .9602  | .9612  | .9621  | .9631  | .9641  | .9651  | .9661  |
| 169.....                     | .9575                                          | .9585  | .9595  | .9605  | .9615  | .9624  | .9634  | .9644  | .9654  | .9664  |
| 170.....                     | .9578                                          | .9588  | .9598  | .9608  | .9618  | .9627  | .9637  | .9647  | .9657  | .9667  |
| 171.....                     | .9581                                          | .9591  | .9601  | .9611  | .9621  | .9631  | .9641  | .9651  | .9661  | .9671  |
| 172.....                     | .9584                                          | .9594  | .9604  | .9614  | .9624  | .9634  | .9644  | .9654  | .9664  | .9674  |
| 173.....                     | .9587                                          | .9597  | .9607  | .9617  | .9627  | .9637  | .9647  | .9657  | .9667  | .9677  |
| 174.....                     | .9591                                          | .9601  | .9611  | .9621  | .9631  | .9640  | .9650  | .9660  | .9670  | .9680  |
| 175.....                     | .9594                                          | .9604  | .9614  | .9624  | .9634  | .9643  | .9653  | .9663  | .9673  | .9683  |
| 176.....                     | .9598                                          | .9608  | .9618  | .9628  | .9638  | .9647  | .9657  | .9667  | .9677  | .9687  |
| 177.....                     | .9601                                          | .9611  | .9621  | .9631  | .9641  | .9650  | .9660  | .9670  | .9680  | .9690  |
| 178.....                     | .9604                                          | .9614  | .9624  | .9634  | .9644  | .9653  | .9663  | .9673  | .9683  | .9693  |
| 179.....                     | .9607                                          | .9617  | .9627  | .9637  | .9647  | .9656  | .9666  | .9676  | .9686  | .9696  |
| 180.....                     | .9610                                          | .9620  | .9630  | .9640  | .9650  | .9659  | .9669  | .9679  | .9689  | .9699  |
| 181.....                     | .9613                                          | .9623  | .9633  | .9643  | .9653  | .9662  | .9672  | .9682  | .9692  | .9702  |
| 182.....                     | .9617                                          | .9627  | .9637  | .9647  | .9657  | .9666  | .9676  | .9686  | .9696  | .9706  |
| 183.....                     | .9620                                          | .9630  | .9640  | .9650  | .9660  | .9669  | .9679  | .9689  | .9699  | .9709  |
| 184.....                     | .9623                                          | .9633  | .9643  | .9653  | .9663  | .9672  | .9682  | .9692  | .9702  | .9712  |
| 185.....                     | .9626                                          | .9636  | .9646  | .9656  | .9666  | .9675  | .9685  | .9695  | .9705  | .9715  |
| 186.....                     | .9629                                          | .9639  | .9649  | .9659  | .9669  | .9678  | .9688  | .9698  | .9708  | .9718  |
| 187.....                     | .9633                                          | .9643  | .9653  | .9663  | .9673  | .9682  | .9692  | .9702  | .9712  | .9722  |
| 188.....                     | .9636                                          | .9646  | .9656  | .9666  | .9676  | .9685  | .9695  | .9705  | .9715  | .9725  |
| 189.....                     | .9639                                          | .9649  | .9659  | .9669  | .9679  | .9688  | .9698  | .9708  | .9718  | .9728  |
| 190.....                     | .9643                                          | .9653  | .9663  | .9672  | .9682  | .9692  | .9702  | .9712  | .9721  | .9731  |
| 191.....                     | .9646                                          | .9656  | .9666  | .9676  | .9686  | .9695  | .9705  | .9715  | .9725  | .9735  |
| 192.....                     | .9649                                          | .9659  | .9669  | .9679  | .9689  | .9698  | .9708  | .9718  | .9728  | .9738  |
| 193.....                     | .9653                                          | .9663  | .9673  | .9683  | .9693  | .9702  | .9712  | .9722  | .9732  | .9742  |
| 194.....                     | .9656                                          | .9666  | .9676  | .9686  | .9696  | .9705  | .9715  | .9725  | .9735  | .9745  |
| 195.....                     | .9659                                          | .9669  | .9679  | .9689  | .9699  | .9708  | .9718  | .9728  | .9738  | .9748  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |       |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|-------|--------|--------|
|                             | 0.930                                          | 0.931  | 0.932  | 0.933  | 0.934  | 0.935  | 0.936  | 0.937 | 0.938  | 0.939  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |       |        |        |
| 0                           | 0.9083                                         | 0.9093 | 0.9103 | 0.9113 | 0.9123 | 0.9134 | 0.9144 | .9154 | 0.9164 | 0.9174 |
| 1                           | .9087                                          | .9097  | .9107  | .9117  | .9127  | .9138  | .9148  | .9158 | .9168  | .9178  |
| 2                           | .9091                                          | .9101  | .9111  | .9121  | .9131  | .9142  | .9152  | .9162 | .9172  | .9182  |
| 3                           | .9095                                          | .9105  | .9115  | .9125  | .9135  | .9146  | .9156  | .9166 | .9176  | .9186  |
| 4                           | .9099                                          | .9109  | .9119  | .9129  | .9139  | .9150  | .9160  | .9170 | .9180  | .9190  |
| 5                           | .9102                                          | .9112  | .9122  | .9132  | .9142  | .9153  | .9163  | .9173 | .9183  | .9193  |
| 6                           | .9106                                          | .9116  | .9126  | .9136  | .9146  | .9157  | .9167  | .9177 | .9187  | .9197  |
| 7                           | .9110                                          | .9120  | .9130  | .9140  | .9150  | .9160  | .9170  | .9180 | .9190  | .9200  |
| 8                           | .9113                                          | .9123  | .9133  | .9143  | .9153  | .9163  | .9173  | .9183 | .9193  | .9203  |
| 9                           | .9117                                          | .9127  | .9137  | .9147  | .9157  | .9167  | .9177  | .9187 | .9197  | .9207  |
| 10                          | .9121                                          | .9131  | .9141  | .9151  | .9161  | .9171  | .9181  | .9191 | .9201  | .9211  |
| 11                          | .9124                                          | .9134  | .9144  | .9154  | .9164  | .9174  | .9184  | .9194 | .9204  | .9214  |
| 12                          | .9128                                          | .9138  | .9148  | .9158  | .9168  | .9178  | .9188  | .9198 | .9208  | .9218  |
| 13                          | .9131                                          | .9141  | .9151  | .9161  | .9171  | .9181  | .9191  | .9201 | .9211  | .9221  |
| 14                          | .9135                                          | .9145  | .9155  | .9165  | .9175  | .9185  | .9195  | .9205 | .9215  | .9225  |
| 15                          | .9138                                          | .9148  | .9158  | .9168  | .9178  | .9188  | .9198  | .9208 | .9218  | .9228  |
| 16                          | .9142                                          | .9152  | .9162  | .9172  | .9182  | .9192  | .9202  | .9212 | .9222  | .9232  |
| 17                          | .9145                                          | .9155  | .9165  | .9175  | .9185  | .9195  | .9205  | .9215 | .9225  | .9235  |
| 18                          | .9149                                          | .9159  | .9169  | .9179  | .9189  | .9199  | .9209  | .9219 | .9229  | .9239  |
| 19                          | .9153                                          | .9163  | .9173  | .9183  | .9193  | .9203  | .9213  | .9223 | .9233  | .9243  |
| 20                          | .9156                                          | .9166  | .9176  | .9186  | .9196  | .9206  | .9216  | .9226 | .9236  | .9246  |
| 21                          | .9160                                          | .9170  | .9180  | .9190  | .9200  | .9210  | .9220  | .9230 | .9240  | .9250  |
| 22                          | .9164                                          | .9174  | .9184  | .9194  | .9204  | .9214  | .9224  | .9234 | .9244  | .9254  |
| 23                          | .9167                                          | .9177  | .9187  | .9197  | .9207  | .9217  | .9227  | .9237 | .9247  | .9257  |
| 24                          | .9171                                          | .9181  | .9191  | .9201  | .9211  | .9221  | .9231  | .9241 | .9251  | .9261  |
| 25                          | .9174                                          | .9184  | .9194  | .9204  | .9214  | .9224  | .9234  | .9244 | .9254  | .9264  |
| 26                          | .9178                                          | .9188  | .9198  | .9208  | .9218  | .9228  | .9238  | .9248 | .9258  | .9268  |
| 27                          | .9182                                          | .9192  | .9202  | .9212  | .9222  | .9232  | .9242  | .9252 | .9262  | .9272  |
| 28                          | .9186                                          | .9196  | .9206  | .9216  | .9226  | .9236  | .9246  | .9256 | .9266  | .9276  |
| 29                          | .9190                                          | .9200  | .9210  | .9220  | .9230  | .9240  | .9250  | .9260 | .9270  | .9280  |
| 30                          | .9193                                          | .9203  | .9213  | .9223  | .9233  | .9243  | .9253  | .9263 | .9273  | .9283  |
| 31                          | .9197                                          | .9207  | .9217  | .9227  | .9237  | .9247  | .9257  | .9267 | .9277  | .9287  |
| 32                          | .9200                                          | .9210  | .9220  | .9230  | .9240  | .9250  | .9260  | .9270 | .9280  | .9290  |
| 33                          | .9204                                          | .9214  | .9224  | .9234  | .9244  | .9254  | .9264  | .9274 | .9284  | .9294  |
| 34                          | .9207                                          | .9217  | .9227  | .9237  | .9247  | .9257  | .9267  | .9277 | .9287  | .9297  |
| 35                          | .9211                                          | .9221  | .9231  | .9241  | .9251  | .9261  | .9271  | .9281 | .9291  | .9301  |
| 36                          | .9214                                          | .9224  | .9234  | .9244  | .9254  | .9264  | .9274  | .9284 | .9294  | .9304  |
| 37                          | .9218                                          | .9228  | .9238  | .9248  | .9258  | .9268  | .9278  | .9288 | .9298  | .9308  |
| 38                          | .9222                                          | .9232  | .9242  | .9252  | .9262  | .9272  | .9282  | .9292 | .9302  | .9312  |
| 39                          | .9225                                          | .9235  | .9245  | .9255  | .9265  | .9275  | .9285  | .9295 | .9305  | .9315  |
| 40                          | .9229                                          | .9239  | .9249  | .9259  | .9269  | .9277  | .9289  | .9299 | .9309  | .9319  |
| 41                          | .9232                                          | .9242  | .9252  | .9262  | .9272  | .9282  | .9292  | .9302 | .9312  | .9322  |
| 42                          | .9236                                          | .9246  | .9256  | .9266  | .9276  | .9286  | .9296  | .9306 | .9316  | .9326  |
| 43                          | .9240                                          | .9250  | .9260  | .9270  | .9280  | .9290  | .9300  | .9310 | .9320  | .9330  |
| 44                          | .9243                                          | .9253  | .9263  | .9273  | .9283  | .9293  | .9303  | .9313 | .9323  | .9333  |
| 45                          | .9247                                          | .9257  | .9267  | .9277  | .9287  | .9297  | .9307  | .9317 | .9327  | .9337  |
| 46                          | .9250                                          | .9260  | .9270  | .9280  | .9290  | .9300  | .9310  | .9320 | .9330  | .9340  |
| 47                          | .9254                                          | .9264  | .9274  | .9284  | .9294  | .9304  | .9314  | .9324 | .9334  | .9344  |
| 48                          | .9257                                          | .9267  | .9277  | .9287  | .9297  | .9307  | .9317  | .9327 | .9337  | .9347  |
| 49                          | .9261                                          | .9271  | .9281  | .9291  | .9301  | .9311  | .9321  | .9331 | .9341  | .9351  |
| 50                          | .9264                                          | .9274  | .9284  | .9294  | .9304  | .9315  | .9325  | .9335 | .9345  | .9355  |
| 51                          | .9268                                          | .9278  | .9288  | .9298  | .9308  | .9318  | .9328  | .9338 | .9348  | .9358  |
| 52                          | .9272                                          | .9282  | .9292  | .9302  | .9312  | .9322  | .9332  | .9342 | .9352  | .9362  |
| 53                          | .9275                                          | .9285  | .9295  | .9305  | .9315  | .9325  | .9335  | .9345 | .9355  | .9365  |
| 54                          | .9279                                          | .9289  | .9299  | .9309  | .9319  | .9329  | .9339  | .9349 | .9359  | .9369  |
| 55                          | .9282                                          | .9292  | .9302  | .9312  | .9322  | .9332  | .9342  | .9352 | .9362  | .9372  |
| 56                          | .9286                                          | .9296  | .9306  | .9316  | .9326  | .9336  | .9346  | .9356 | .9366  | .9376  |
| 57                          | .9290                                          | .9300  | .9310  | .9320  | .9330  | .9340  | .9350  | .9360 | .9370  | .9380  |
| 58                          | .9293                                          | .9303  | .9313  | .9323  | .9333  | .9343  | .9353  | .9363 | .9373  | .9383  |
| 59                          | .9297                                          | .9307  | .9317  | .9327  | .9337  | .9347  | .9357  | .9367 | .9377  | .9387  |
| 60                          | .9300                                          | .9310  | .9320  | .9330  | .9340  | .9350  | .9360  | .9370 | .9380  | .9390  |
| 61                          | .9304                                          | .9314  | .9324  | .9334  | .9344  | .9354  | .9364  | .9374 | .9384  | .9394  |
| 62                          | .9307                                          | .9317  | .9327  | .9337  | .9347  | .9357  | .9367  | .9377 | .9387  | .9397  |
| 63                          | .9310                                          | .9320  | .9330  | .9340  | .9350  | .9360  | .9370  | .9380 | .9390  | .9400  |
| 64                          | .9314                                          | .9324  | .9334  | .9344  | .9354  | .9364  | .9374  | .9384 | .9394  | .9404  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.930                                          | 0.931  | 0.932  | 0.933  | 0.934  | 0.935  | 0.936  | 0.937  | 0.938  | 0.939  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                     | 0.9318                                         | 0.9328 | 0.9338 | 0.9348 | 0.9358 | 0.9368 | 0.9378 | 0.9388 | 0.9398 | 0.9408 |
| 66.....                     | .9321                                          | .9331  | .9341  | .9351  | .9361  | .9371  | .9381  | .9391  | .9401  | .9411  |
| 67.....                     | .9325                                          | .9335  | .9345  | .9355  | .9365  | .9375  | .9385  | .9395  | .9405  | .9415  |
| 68.....                     | .9328                                          | .9338  | .9348  | .9358  | .9368  | .9378  | .9388  | .9398  | .9408  | .9418  |
| 69.....                     | .9332                                          | .9342  | .9352  | .9362  | .9372  | .9382  | .9392  | .9402  | .9412  | .9422  |
| 70.....                     | .9335                                          | .9345  | .9355  | .9365  | .9375  | .9385  | .9395  | .9405  | .9415  | .9425  |
| 71.....                     | .9339                                          | .9349  | .9359  | .9369  | .9379  | .9389  | .9399  | .9409  | .9419  | .9429  |
| 72.....                     | .9342                                          | .9352  | .9362  | .9372  | .9382  | .9392  | .9402  | .9412  | .9422  | .9432  |
| 73.....                     | .9346                                          | .9356  | .9366  | .9376  | .9386  | .9396  | .9406  | .9416  | .9426  | .9436  |
| 74.....                     | .9350                                          | .9360  | .9370  | .9380  | .9390  | .9400  | .9410  | .9420  | .9430  | .9440  |
| 75.....                     | .9353                                          | .9363  | .9373  | .9383  | .9393  | .9403  | .9413  | .9423  | .9433  | .9443  |
| 76.....                     | .9357                                          | .9367  | .9377  | .9387  | .9397  | .9406  | .9416  | .9426  | .9436  | .9446  |
| 77.....                     | .9360                                          | .9370  | .9380  | .9390  | .9400  | .9410  | .9420  | .9430  | .9440  | .9450  |
| 78.....                     | .9364                                          | .9374  | .9384  | .9394  | .9404  | .9413  | .9423  | .9433  | .9443  | .9453  |
| 79.....                     | .9367                                          | .9377  | .9387  | .9397  | .9407  | .9416  | .9426  | .9436  | .9446  | .9456  |
| 80.....                     | .9370                                          | .9380  | .9390  | .9400  | .9410  | .9420  | .9430  | .9440  | .9450  | .9460  |
| 81.....                     | .9374                                          | .9384  | .9394  | .9404  | .9414  | .9424  | .9434  | .9444  | .9454  | .9464  |
| 82.....                     | .9378                                          | .9388  | .9398  | .9408  | .9418  | .9427  | .9437  | .9447  | .9457  | .9467  |
| 83.....                     | .9381                                          | .9391  | .9401  | .9411  | .9421  | .9431  | .9441  | .9451  | .9461  | .9471  |
| 84.....                     | .9385                                          | .9395  | .9405  | .9415  | .9425  | .9435  | .9445  | .9455  | .9465  | .9475  |
| 85.....                     | .9389                                          | .9399  | .9409  | .9419  | .9429  | .9438  | .9448  | .9458  | .9468  | .9478  |
| 86.....                     | .9392                                          | .9402  | .9412  | .9422  | .9432  | .9441  | .9451  | .9461  | .9471  | .9481  |
| 87.....                     | .9396                                          | .9406  | .9416  | .9426  | .9436  | .9445  | .9455  | .9465  | .9475  | .9485  |
| 88.....                     | .9399                                          | .9409  | .9419  | .9429  | .9439  | .9449  | .9459  | .9469  | .9479  | .9489  |
| 89.....                     | .9403                                          | .9413  | .9423  | .9433  | .9443  | .9452  | .9462  | .9472  | .9482  | .9492  |
| 90.....                     | .9406                                          | .9416  | .9426  | .9436  | .9446  | .9455  | .9465  | .9475  | .9485  | .9495  |
| 91.....                     | .9410                                          | .9420  | .9430  | .9440  | .9450  | .9459  | .9469  | .9479  | .9489  | .9499  |
| 92.....                     | .9413                                          | .9423  | .9433  | .9443  | .9453  | .9463  | .9473  | .9483  | .9493  | .9503  |
| 93.....                     | .9417                                          | .9427  | .9437  | .9447  | .9457  | .9466  | .9476  | .9486  | .9496  | .9506  |
| 94.....                     | .9420                                          | .9430  | .9440  | .9450  | .9460  | .9469  | .9479  | .9489  | .9499  | .9509  |
| 95.....                     | .9423                                          | .9433  | .9443  | .9453  | .9463  | .9473  | .9483  | .9493  | .9503  | .9513  |
| 96.....                     | .9427                                          | .9437  | .9447  | .9457  | .9467  | .9476  | .9486  | .9496  | .9506  | .9516  |
| 97.....                     | .9430                                          | .9440  | .9450  | .9460  | .9470  | .9479  | .9489  | .9499  | .9509  | .9519  |
| 98.....                     | .9434                                          | .9444  | .9454  | .9464  | .9474  | .9483  | .9493  | .9503  | .9513  | .9523  |
| 99.....                     | .9437                                          | .9447  | .9457  | .9467  | .9477  | .9486  | .9496  | .9506  | .9516  | .9526  |
| 100.....                    | .9440                                          | .9450  | .9460  | .9470  | .9480  | .9490  | .9500  | .9510  | .9520  | .9530  |
| 101.....                    | .9444                                          | .9454  | .9464  | .9474  | .9484  | .9493  | .9503  | .9513  | .9523  | .9533  |
| 102.....                    | .9447                                          | .9457  | .9467  | .9477  | .9487  | .9496  | .9506  | .9516  | .9526  | .9536  |
| 103.....                    | .9450                                          | .9460  | .9470  | .9480  | .9490  | .9500  | .9510  | .9520  | .9530  | .9540  |
| 104.....                    | .9454                                          | .9464  | .9474  | .9484  | .9494  | .9504  | .9514  | .9524  | .9534  | .9544  |
| 105.....                    | .9457                                          | .9467  | .9477  | .9487  | .9497  | .9507  | .9517  | .9527  | .9537  | .9547  |
| 106.....                    | .9460                                          | .9470  | .9480  | .9490  | .9500  | .9510  | .9520  | .9530  | .9540  | .9550  |
| 107.....                    | .9463                                          | .9473  | .9483  | .9493  | .9503  | .9513  | .9523  | .9533  | .9543  | .9553  |
| 108.....                    | .9467                                          | .9477  | .9487  | .9497  | .9507  | .9517  | .9527  | .9537  | .9547  | .9557  |
| 109.....                    | .9470                                          | .9480  | .9490  | .9500  | .9510  | .9520  | .9530  | .9540  | .9550  | .9560  |
| 110.....                    | .9474                                          | .9484  | .9494  | .9504  | .9514  | .9524  | .9534  | .9544  | .9554  | .9564  |
| 111.....                    | .9477                                          | .9487  | .9497  | .9507  | .9517  | .9527  | .9537  | .9547  | .9557  | .9567  |
| 112.....                    | .9481                                          | .9491  | .9501  | .9511  | .9521  | .9531  | .9541  | .9551  | .9561  | .9571  |
| 113.....                    | .9485                                          | .9495  | .9505  | .9515  | .9525  | .9534  | .9544  | .9554  | .9564  | .9574  |
| 114.....                    | .9488                                          | .9498  | .9508  | .9518  | .9528  | .9537  | .9547  | .9557  | .9567  | .9577  |
| 115.....                    | .9491                                          | .9501  | .9511  | .9521  | .9531  | .9540  | .9550  | .9560  | .9570  | .9580  |
| 116.....                    | .9494                                          | .9504  | .9514  | .9524  | .9534  | .9544  | .9554  | .9564  | .9574  | .9584  |
| 117.....                    | .9497                                          | .9507  | .9517  | .9527  | .9537  | .9547  | .9557  | .9567  | .9577  | .9587  |
| 118.....                    | .9500                                          | .9510  | .9520  | .9530  | .9540  | .9550  | .9560  | .9570  | .9580  | .9590  |
| 119.....                    | .9504                                          | .9514  | .9524  | .9534  | .9544  | .9554  | .9564  | .9574  | .9584  | .9594  |
| 120.....                    | .9508                                          | .9518  | .9528  | .9538  | .9548  | .9557  | .9567  | .9577  | .9587  | .9597  |
| 121.....                    | .9512                                          | .9522  | .9532  | .9542  | .9552  | .9561  | .9571  | .9581  | .9591  | .9601  |
| 122.....                    | .9516                                          | .9526  | .9536  | .9546  | .9556  | .9565  | .9575  | .9585  | .9595  | .9605  |
| 123.....                    | .9519                                          | .9529  | .9539  | .9549  | .9559  | .9569  | .9579  | .9589  | .9599  | .9609  |
| 124.....                    | .9522                                          | .9532  | .9542  | .9552  | .9562  | .9572  | .9582  | .9592  | .9602  | .9612  |
| 125.....                    | .9525                                          | .9535  | .9545  | .9555  | .9565  | .9575  | .9585  | .9595  | .9605  | .9615  |
| 126.....                    | .9528                                          | .9538  | .9548  | .9558  | .9568  | .9578  | .9588  | .9598  | .9608  | .9618  |
| 127.....                    | .9531                                          | .9541  | .9551  | .9561  | .9571  | .9581  | .9591  | .9601  | .9611  | .9621  |
| 128.....                    | .9535                                          | .9545  | .9555  | .9565  | .9575  | .9585  | .9595  | .9605  | .9615  | .9625  |
| 129.....                    | .9539                                          | .9549  | .9559  | .9569  | .9579  | .9589  | .9599  | .9609  | .9619  | .9629  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.930                                          | 0.931  | 0.932  | 0.933  | 0.934  | 0.935  | 0.936  | 0.937  | 0.938  | 0.939  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 130.....                    | 0.9543                                         | 0.9553 | 0.9563 | 0.9573 | 0.9583 | 0.9592 | 0.9602 | 0.9612 | 0.9622 | 0.9632 |
| 131.....                    | .9547                                          | .9557  | .9567  | .9577  | .9587  | .9596  | .9606  | .9616  | .9626  | .9636  |
| 132.....                    | .9550                                          | .9560  | .9570  | .9580  | .9590  | .9599  | .9609  | .9619  | .9629  | .9639  |
| 133.....                    | .9553                                          | .9563  | .9573  | .9583  | .9593  | .9602  | .9612  | .9622  | .9632  | .9642  |
| 134.....                    | .9556                                          | .9566  | .9576  | .9586  | .9596  | .9605  | .9615  | .9625  | .9635  | .9645  |
| 135.....                    | .9559                                          | .9569  | .9579  | .9589  | .9599  | .9609  | .9619  | .9629  | .9639  | .9649  |
| 136.....                    | .9562                                          | .9572  | .9582  | .9592  | .9602  | .9612  | .9622  | .9632  | .9642  | .9652  |
| 137.....                    | .9565                                          | .9575  | .9585  | .9595  | .9605  | .9615  | .9625  | .9635  | .9645  | .9655  |
| 138.....                    | .9569                                          | .9579  | .9589  | .9599  | .9609  | .9619  | .9629  | .9639  | .9649  | .9659  |
| 139.....                    | .9573                                          | .9583  | .9593  | .9603  | .9613  | .9623  | .9633  | .9643  | .9653  | .9663  |
| 140.....                    | .9577                                          | .9587  | .9597  | .9607  | .9617  | .9626  | .9636  | .9646  | .9656  | .9666  |
| 141.....                    | .9580                                          | .9590  | .9600  | .9610  | .9620  | .9630  | .9640  | .9650  | .9660  | .9670  |
| 142.....                    | .9583                                          | .9593  | .9603  | .9613  | .9623  | .9633  | .9643  | .9653  | .9663  | .9673  |
| 143.....                    | .9586                                          | .9596  | .9606  | .9616  | .9626  | .9636  | .9646  | .9656  | .9666  | .9676  |
| 144.....                    | .9589                                          | .9599  | .9609  | .9619  | .9629  | .9639  | .9649  | .9659  | .9669  | .9679  |
| 145.....                    | .9592                                          | .9602  | .9612  | .9622  | .9632  | .9642  | .9652  | .9662  | .9672  | .9682  |
| 146.....                    | .9595                                          | .9605  | .9615  | .9625  | .9635  | .9645  | .9655  | .9665  | .9675  | .9685  |
| 147.....                    | .9599                                          | .9609  | .9619  | .9629  | .9639  | .9649  | .9659  | .9669  | .9679  | .9689  |
| 148.....                    | .9603                                          | .9613  | .9623  | .9633  | .9643  | .9653  | .9663  | .9673  | .9683  | .9693  |
| 149.....                    | .9607                                          | .9617  | .9627  | .9637  | .9647  | .9656  | .9666  | .9676  | .9686  | .9696  |
| 150.....                    | .9610                                          | .9620  | .9630  | .9640  | .9650  | .9660  | .9670  | .9680  | .9690  | .9700  |
| 151.....                    | .9614                                          | .9624  | .9634  | .9644  | .9654  | .9663  | .9673  | .9683  | .9693  | .9703  |
| 152.....                    | .9617                                          | .9627  | .9637  | .9647  | .9657  | .9666  | .9676  | .9686  | .9696  | .9706  |
| 153.....                    | .9620                                          | .9630  | .9640  | .9650  | .9660  | .9670  | .9680  | .9690  | .9700  | .9710  |
| 154.....                    | .9623                                          | .9633  | .9643  | .9653  | .9663  | .9673  | .9683  | .9693  | .9703  | .9713  |
| 155.....                    | .9627                                          | .9637  | .9647  | .9657  | .9667  | .9676  | .9686  | .9696  | .9706  | .9716  |
| 156.....                    | .9631                                          | .9641  | .9651  | .9661  | .9671  | .9680  | .9690  | .9700  | .9710  | .9720  |
| 157.....                    | .9634                                          | .9644  | .9654  | .9664  | .9674  | .9684  | .9694  | .9704  | .9714  | .9724  |
| 158.....                    | .9638                                          | .9648  | .9658  | .9668  | .9678  | .9687  | .9697  | .9707  | .9717  | .9727  |
| 159.....                    | .9641                                          | .9651  | .9661  | .9671  | .9681  | .9690  | .9700  | .9710  | .9720  | .9730  |
| 160.....                    | .9644                                          | .9654  | .9664  | .9674  | .9684  | .9694  | .9704  | .9714  | .9724  | .9734  |
| 161.....                    | .9648                                          | .9658  | .9668  | .9678  | .9688  | .9697  | .9707  | .9717  | .9727  | .9737  |
| 162.....                    | .9651                                          | .9661  | .9671  | .9681  | .9691  | .9700  | .9710  | .9720  | .9730  | .9740  |
| 163.....                    | .9654                                          | .9664  | .9674  | .9684  | .9694  | .9703  | .9713  | .9723  | .9733  | .9743  |
| 164.....                    | .9657                                          | .9667  | .9677  | .9687  | .9697  | .9706  | .9716  | .9726  | .9736  | .9746  |
| 165.....                    | .9661                                          | .9671  | .9681  | .9691  | .9701  | .9710  | .9720  | .9730  | .9740  | .9750  |
| 166.....                    | .9664                                          | .9674  | .9684  | .9694  | .9704  | .9713  | .9723  | .9733  | .9743  | .9753  |
| 167.....                    | .9668                                          | .9678  | .9688  | .9698  | .9708  | .9717  | .9727  | .9737  | .9747  | .9757  |
| 168.....                    | .9671                                          | .9681  | .9691  | .9701  | .9711  | .9720  | .9730  | .9740  | .9750  | .9760  |
| 169.....                    | .9674                                          | .9684  | .9694  | .9704  | .9714  | .9723  | .9733  | .9743  | .9753  | .9763  |
| 170.....                    | .9677                                          | .9687  | .9697  | .9707  | .9717  | .9726  | .9736  | .9746  | .9756  | .9766  |
| 171.....                    | .9681                                          | .9691  | .9701  | .9711  | .9721  | .9730  | .9740  | .9750  | .9760  | .9770  |
| 172.....                    | .9684                                          | .9694  | .9704  | .9714  | .9724  | .9733  | .9743  | .9753  | .9763  | .9773  |
| 173.....                    | .9687                                          | .9697  | .9707  | .9717  | .9727  | .9736  | .9746  | .9756  | .9766  | .9776  |
| 174.....                    | .9690                                          | .9700  | .9710  | .9720  | .9730  | .9739  | .9749  | .9759  | .9769  | .9779  |
| 175.....                    | .9693                                          | .9703  | .9713  | .9723  | .9733  | .9742  | .9752  | .9762  | .9772  | .9782  |
| 176.....                    | .9697                                          | .9707  | .9717  | .9726  | .9736  | .9746  | .9756  | .9766  | .9775  | .9785  |
| 177.....                    | .9700                                          | .9710  | .9720  | .9730  | .9740  | .9749  | .9759  | .9769  | .9779  | .9789  |
| 178.....                    | .9703                                          | .9713  | .9723  | .9733  | .9743  | .9752  | .9762  | .9772  | .9782  | .9792  |
| 179.....                    | .9706                                          | .9716  | .9726  | .9736  | .9746  | .9755  | .9765  | .9775  | .9785  | .9795  |
| 180.....                    | .9709                                          | .9719  | .9729  | .9739  | .9749  | .9758  | .9768  | .9778  | .9788  | .9798  |
| 181.....                    | .9712                                          | .9722  | .9732  | .9742  | .9752  | .9761  | .9771  | .9781  | .9791  | .9801  |
| 182.....                    | .9716                                          | .9726  | .9736  | .9746  | .9756  | .9765  | .9775  | .9785  | .9795  | .9805  |
| 183.....                    | .9719                                          | .9729  | .9739  | .9749  | .9759  | .9768  | .9778  | .9788  | .9798  | .9808  |
| 184.....                    | .9722                                          | .9732  | .9742  | .9752  | .9762  | .9771  | .9781  | .9791  | .9801  | .9811  |
| 185.....                    | .9725                                          | .9735  | .9745  | .9755  | .9765  | .9774  | .9784  | .9794  | .9804  | .9814  |
| 186.....                    | .9728                                          | .9738  | .9748  | .9758  | .9768  | .9777  | .9787  | .9797  | .9807  | .9817  |
| 187.....                    | .9732                                          | .9742  | .9752  | .9761  | .9771  | .9781  | .9791  | .9801  | .9810  | .9820  |
| 188.....                    | .9735                                          | .9745  | .9755  | .9764  | .9774  | .9784  | .9794  | .9804  | .9813  | .9823  |
| 189.....                    | .9738                                          | .9748  | .9758  | .9767  | .9777  | .9787  | .9797  | .9807  | .9816  | .9826  |
| 190.....                    | .9741                                          | .9751  | .9761  | .9771  | .9781  | .9790  | .9800  | .9810  | .9820  | .9830  |
| 191.....                    | .9745                                          | .9755  | .9765  | .9774  | .9784  | .9794  | .9804  | .9814  | .9823  | .9833  |
| 192.....                    | .9748                                          | .9758  | .9768  | .9777  | .9787  | .9797  | .9807  | .9817  | .9826  | .9836  |
| 193.....                    | .9752                                          | .9762  | .9772  | .9781  | .9791  | .9801  | .9811  | .9821  | .9830  | .9840  |
| 194.....                    | .9755                                          | .9765  | .9775  | .9784  | .9794  | .9804  | .9814  | .9824  | .9833  | .9843  |
| 195.....                    | .9758                                          | .9768  | .9778  | .9787  | .9797  | .9807  | .9817  | .9827  | .9836  | .9846  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in ° F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 0.940                                          | 0.941  | 0.942  | 0.943  | 0.944  | 0.945  | 0.946  | 0.947  | 0.948  | 0.949  |
|                              | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                       | 0.9184                                         | 0.9194 | 0.9204 | 0.9214 | 0.9224 | 0.9235 | 0.9245 | 0.9255 | 0.9265 | 0.9275 |
| 1.....                       | .9188                                          | .9198  | .9208  | .9218  | .9228  | .9239  | .9249  | .9259  | .9269  | .9279  |
| 2.....                       | .9192                                          | .9202  | .9212  | .9222  | .9232  | .9242  | .9252  | .9262  | .9272  | .9282  |
| 3.....                       | .9196                                          | .9206  | .9216  | .9226  | .9236  | .9246  | .9256  | .9266  | .9276  | .9286  |
| 4.....                       | .9200                                          | .9210  | .9220  | .9230  | .9240  | .9250  | .9260  | .9270  | .9280  | .9290  |
| 5.....                       | .9203                                          | .9213  | .9223  | .9233  | .9243  | .9253  | .9263  | .9273  | .9283  | .9293  |
| 6.....                       | .9207                                          | .9217  | .9227  | .9237  | .9247  | .9257  | .9267  | .9277  | .9287  | .9297  |
| 7.....                       | .9210                                          | .9220  | .9230  | .9240  | .9250  | .9260  | .9270  | .9280  | .9290  | .9300  |
| 8.....                       | .9213                                          | .9223  | .9233  | .9243  | .9253  | .9263  | .9273  | .9283  | .9293  | .9303  |
| 9.....                       | .9217                                          | .9227  | .9237  | .9247  | .9257  | .9267  | .9277  | .9287  | .9297  | .9307  |
| 10.....                      | .9221                                          | .9231  | .9241  | .9251  | .9261  | .9271  | .9281  | .9291  | .9301  | .9311  |
| 11.....                      | .9224                                          | .9234  | .9244  | .9254  | .9264  | .9274  | .9284  | .9294  | .9304  | .9314  |
| 12.....                      | .9228                                          | .9238  | .9248  | .9258  | .9268  | .9278  | .9288  | .9298  | .9308  | .9318  |
| 13.....                      | .9231                                          | .9241  | .9251  | .9261  | .9271  | .9281  | .9291  | .9301  | .9311  | .9321  |
| 14.....                      | .9235                                          | .9245  | .9255  | .9265  | .9275  | .9285  | .9295  | .9305  | .9315  | .9325  |
| 15.....                      | .9238                                          | .9248  | .9258  | .9268  | .9278  | .9288  | .9298  | .9308  | .9318  | .9328  |
| 16.....                      | .9242                                          | .9252  | .9262  | .9272  | .9282  | .9292  | .9302  | .9312  | .9322  | .9332  |
| 17.....                      | .9245                                          | .9255  | .9265  | .9275  | .9285  | .9295  | .9305  | .9315  | .9325  | .9335  |
| 18.....                      | .9249                                          | .9259  | .9269  | .9279  | .9289  | .9299  | .9309  | .9319  | .9329  | .9339  |
| 19.....                      | .9253                                          | .9263  | .9273  | .9283  | .9293  | .9303  | .9313  | .9323  | .9333  | .9343  |
| 20.....                      | .9256                                          | .9266  | .9276  | .9286  | .9296  | .9306  | .9316  | .9326  | .9336  | .9346  |
| 21.....                      | .9260                                          | .9270  | .9280  | .9290  | .9300  | .9310  | .9320  | .9330  | .9340  | .9350  |
| 22.....                      | .9264                                          | .9274  | .9284  | .9294  | .9304  | .9314  | .9324  | .9334  | .9344  | .9354  |
| 23.....                      | .9267                                          | .9277  | .9287  | .9297  | .9307  | .9317  | .9327  | .9337  | .9347  | .9357  |
| 24.....                      | .9271                                          | .9281  | .9291  | .9301  | .9311  | .9321  | .9331  | .9341  | .9351  | .9361  |
| 25.....                      | .9274                                          | .9284  | .9294  | .9304  | .9314  | .9324  | .9334  | .9344  | .9354  | .9364  |
| 26.....                      | .9278                                          | .9288  | .9298  | .9308  | .9318  | .9328  | .9338  | .9348  | .9358  | .9368  |
| 27.....                      | .9282                                          | .9292  | .9302  | .9312  | .9322  | .9332  | .9342  | .9352  | .9362  | .9372  |
| 28.....                      | .9286                                          | .9296  | .9306  | .9316  | .9326  | .9336  | .9346  | .9356  | .9366  | .9376  |
| 29.....                      | .9290                                          | .9300  | .9310  | .9320  | .9330  | .9340  | .9350  | .9360  | .9370  | .9380  |
| 30.....                      | .9293                                          | .9303  | .9313  | .9323  | .9333  | .9343  | .9353  | .9363  | .9373  | .9383  |
| 31.....                      | .9297                                          | .9307  | .9317  | .9327  | .9337  | .9347  | .9357  | .9367  | .9377  | .9387  |
| 32.....                      | .9300                                          | .9310  | .9320  | .9330  | .9340  | .9350  | .9360  | .9370  | .9380  | .9390  |
| 33.....                      | .9304                                          | .9314  | .9324  | .9334  | .9344  | .9354  | .9364  | .9374  | .9384  | .9394  |
| 34.....                      | .9307                                          | .9317  | .9327  | .9337  | .9347  | .9357  | .9367  | .9377  | .9387  | .9397  |
| 35.....                      | .9311                                          | .9321  | .9331  | .9341  | .9351  | .9361  | .9371  | .9381  | .9391  | .9401  |
| 36.....                      | .9314                                          | .9324  | .9334  | .9344  | .9354  | .9364  | .9374  | .9384  | .9394  | .9404  |
| 37.....                      | .9318                                          | .9328  | .9338  | .9348  | .9358  | .9368  | .9378  | .9388  | .9398  | .9408  |
| 38.....                      | .9322                                          | .9332  | .9342  | .9352  | .9362  | .9372  | .9382  | .9392  | .9402  | .9412  |
| 39.....                      | .9325                                          | .9335  | .9345  | .9355  | .9365  | .9375  | .9385  | .9395  | .9405  | .9415  |
| 40.....                      | .9329                                          | .9339  | .9349  | .9359  | .9369  | .9379  | .9389  | .9399  | .9409  | .9419  |
| 41.....                      | .9332                                          | .9342  | .9352  | .9362  | .9372  | .9382  | .9392  | .9402  | .9412  | .9422  |
| 42.....                      | .9336                                          | .9346  | .9356  | .9366  | .9376  | .9386  | .9396  | .9406  | .9416  | .9426  |
| 43.....                      | .9340                                          | .9350  | .9360  | .9370  | .9380  | .9390  | .9400  | .9410  | .9420  | .9430  |
| 44.....                      | .9343                                          | .9353  | .9363  | .9373  | .9383  | .9393  | .9403  | .9413  | .9423  | .9433  |
| 45.....                      | .9347                                          | .9357  | .9367  | .9377  | .9387  | .9397  | .9407  | .9417  | .9427  | .9437  |
| 46.....                      | .9350                                          | .9360  | .9370  | .9380  | .9390  | .9400  | .9410  | .9420  | .9430  | .9440  |
| 47.....                      | .9354                                          | .9364  | .9374  | .9384  | .9394  | .9404  | .9414  | .9424  | .9434  | .9444  |
| 48.....                      | .9357                                          | .9367  | .9377  | .9387  | .9397  | .9407  | .9417  | .9427  | .9437  | .9447  |
| 49.....                      | .9361                                          | .9371  | .9381  | .9391  | .9401  | .9411  | .9421  | .9431  | .9441  | .9451  |
| 50.....                      | .9365                                          | .9375  | .9385  | .9395  | .9405  | .9415  | .9425  | .9435  | .9445  | .9455  |
| 51.....                      | .9368                                          | .9378  | .9388  | .9398  | .9408  | .9418  | .9428  | .9438  | .9448  | .9458  |
| 52.....                      | .9372                                          | .9382  | .9392  | .9402  | .9412  | .9422  | .9432  | .9442  | .9452  | .9462  |
| 53.....                      | .9375                                          | .9385  | .9395  | .9405  | .9415  | .9425  | .9435  | .9445  | .9455  | .9465  |
| 54.....                      | .9379                                          | .9389  | .9399  | .9409  | .9419  | .9429  | .9439  | .9449  | .9459  | .9469  |
| 55.....                      | .9382                                          | .9392  | .9402  | .9412  | .9422  | .9432  | .9442  | .9452  | .9462  | .9472  |
| 56.....                      | .9386                                          | .9396  | .9406  | .9416  | .9426  | .9436  | .9446  | .9456  | .9466  | .9476  |
| 57.....                      | .9390                                          | .9400  | .9410  | .9420  | .9430  | .9440  | .9450  | .9460  | .9470  | .9480  |
| 58.....                      | .9393                                          | .9403  | .9413  | .9423  | .9433  | .9443  | .9453  | .9463  | .9473  | .9483  |
| 59.....                      | .9397                                          | .9407  | .9417  | .9427  | .9437  | .9447  | .9457  | .9467  | .9477  | .9487  |
| 60.....                      | .9400                                          | .9410  | .9420  | .9430  | .9440  | .9450  | .9460  | .9470  | .9480  | .9490  |
| 61.....                      | .9404                                          | .9414  | .9424  | .9434  | .9444  | .9454  | .9464  | .9474  | .9484  | .9494  |
| 62.....                      | .9407                                          | .9417  | .9427  | .9437  | .9447  | .9457  | .9467  | .9477  | .9487  | .9497  |
| 63.....                      | .9410                                          | .9420  | .9430  | .9440  | .9450  | .9460  | .9470  | .9480  | .9490  | .9500  |
| 64.....                      | .9414                                          | .9424  | .9434  | .9444  | .9454  | .9464  | .9474  | .9484  | .9494  | .9504  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in ° F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 0.940                                          | 0.941  | 0.942  | 0.943  | 0.944  | 0.945  | 0.946  | 0.947  | 0.948  | 0.949  |
|                              | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                      | 0.9418                                         | 0.9428 | 0.9438 | 0.9448 | 0.9458 | 0.9468 | 0.9478 | 0.9488 | 0.9498 | 0.9508 |
| 66.....                      | .9421                                          | .9431  | .9441  | .9451  | .9461  | .9471  | .9481  | .9491  | .9501  | .9511  |
| 67.....                      | .9425                                          | .9435  | .9445  | .9455  | .9465  | .9475  | .9485  | .9495  | .9505  | .9515  |
| 68.....                      | .9428                                          | .9438  | .9448  | .9458  | .9468  | .9478  | .9488  | .9498  | .9508  | .9518  |
| 69.....                      | .9432                                          | .9442  | .9452  | .9462  | .9472  | .9481  | .9491  | .9501  | .9511  | .9521  |
| 70.....                      | .9435                                          | .9445  | .9455  | .9465  | .9475  | .9485  | .9495  | .9505  | .9515  | .9525  |
| 71.....                      | .9439                                          | .9449  | .9459  | .9469  | .9479  | .9488  | .9498  | .9508  | .9518  | .9528  |
| 72.....                      | .9442                                          | .9452  | .9462  | .9472  | .9482  | .9492  | .9502  | .9512  | .9522  | .9532  |
| 73.....                      | .9446                                          | .9456  | .9466  | .9476  | .9486  | .9495  | .9505  | .9515  | .9525  | .9535  |
| 74.....                      | .9450                                          | .9460  | .9470  | .9480  | .9490  | .9499  | .9509  | .9519  | .9529  | .9539  |
| 75.....                      | .9453                                          | .9463  | .9473  | .9483  | .9493  | .9503  | .9513  | .9523  | .9533  | .9543  |
| 76.....                      | .9456                                          | .9466  | .9476  | .9486  | .9496  | .9506  | .9516  | .9526  | .9536  | .9546  |
| 77.....                      | .9460                                          | .9470  | .9480  | .9490  | .9500  | .9510  | .9520  | .9530  | .9540  | .9550  |
| 78.....                      | .9463                                          | .9473  | .9483  | .9493  | .9503  | .9513  | .9523  | .9533  | .9543  | .9553  |
| 79.....                      | .9466                                          | .9476  | .9486  | .9496  | .9506  | .9516  | .9526  | .9536  | .9546  | .9556  |
| 80.....                      | .9470                                          | .9480  | .9490  | .9500  | .9510  | .9520  | .9530  | .9540  | .9550  | .9560  |
| 81.....                      | .9474                                          | .9484  | .9494  | .9504  | .9514  | .9524  | .9534  | .9544  | .9554  | .9564  |
| 82.....                      | .9477                                          | .9487  | .9497  | .9507  | .9517  | .9527  | .9537  | .9547  | .9557  | .9567  |
| 83.....                      | .9481                                          | .9491  | .9501  | .9511  | .9521  | .9531  | .9541  | .9551  | .9561  | .9571  |
| 84.....                      | .9485                                          | .9495  | .9505  | .9515  | .9525  | .9534  | .9544  | .9554  | .9564  | .9574  |
| 85.....                      | .9488                                          | .9498  | .9508  | .9518  | .9528  | .9538  | .9548  | .9558  | .9568  | .9578  |
| 86.....                      | .9491                                          | .9501  | .9511  | .9521  | .9531  | .9541  | .9551  | .9561  | .9571  | .9581  |
| 87.....                      | .9495                                          | .9505  | .9515  | .9525  | .9535  | .9545  | .9555  | .9565  | .9575  | .9585  |
| 88.....                      | .9499                                          | .9509  | .9519  | .9529  | .9539  | .9548  | .9558  | .9568  | .9578  | .9588  |
| 89.....                      | .9502                                          | .9512  | .9522  | .9532  | .9542  | .9552  | .9562  | .9572  | .9582  | .9592  |
| 90.....                      | .9505                                          | .9515  | .9525  | .9535  | .9545  | .9555  | .9565  | .9575  | .9585  | .9595  |
| 91.....                      | .9509                                          | .9519  | .9529  | .9539  | .9549  | .9559  | .9569  | .9579  | .9589  | .9599  |
| 92.....                      | .9513                                          | .9523  | .9533  | .9543  | .9553  | .9562  | .9572  | .9582  | .9592  | .9602  |
| 93.....                      | .9516                                          | .9526  | .9536  | .9546  | .9556  | .9565  | .9575  | .9585  | .9595  | .9605  |
| 94.....                      | .9519                                          | .9529  | .9539  | .9549  | .9559  | .9568  | .9578  | .9588  | .9598  | .9608  |
| 95.....                      | .9523                                          | .9533  | .9543  | .9553  | .9563  | .9572  | .9582  | .9592  | .9602  | .9612  |
| 96.....                      | .9526                                          | .9536  | .9546  | .9556  | .9566  | .9575  | .9585  | .9595  | .9605  | .9615  |
| 97.....                      | .9529                                          | .9539  | .9549  | .9559  | .9569  | .9579  | .9589  | .9599  | .9609  | .9619  |
| 98.....                      | .9533                                          | .9543  | .9553  | .9563  | .9573  | .9583  | .9593  | .9603  | .9613  | .9623  |
| 99.....                      | .9536                                          | .9546  | .9556  | .9566  | .9576  | .9586  | .9596  | .9606  | .9616  | .9626  |
| 100.....                     | .9540                                          | .9550  | .9560  | .9570  | .9580  | .9589  | .9599  | .9609  | .9619  | .9629  |
| 101.....                     | .9543                                          | .9553  | .9563  | .9573  | .9583  | .9593  | .9603  | .9613  | .9623  | .9633  |
| 102.....                     | .9546                                          | .9556  | .9566  | .9576  | .9586  | .9596  | .9606  | .9616  | .9626  | .9636  |
| 103.....                     | .9550                                          | .9560  | .9570  | .9580  | .9590  | .9599  | .9609  | .9619  | .9629  | .9639  |
| 104.....                     | .9554                                          | .9564  | .9574  | .9584  | .9594  | .9603  | .9613  | .9623  | .9633  | .9643  |
| 105.....                     | .9557                                          | .9567  | .9577  | .9587  | .9597  | .9606  | .9616  | .9626  | .9636  | .9646  |
| 106.....                     | .9560                                          | .9570  | .9580  | .9590  | .9600  | .9609  | .9619  | .9629  | .9639  | .9649  |
| 107.....                     | .9563                                          | .9573  | .9583  | .9593  | .9603  | .9613  | .9623  | .9633  | .9643  | .9653  |
| 108.....                     | .9567                                          | .9577  | .9587  | .9597  | .9607  | .9616  | .9626  | .9636  | .9646  | .9656  |
| 109.....                     | .9570                                          | .9580  | .9590  | .9600  | .9610  | .9620  | .9630  | .9640  | .9650  | .9660  |
| 110.....                     | .9574                                          | .9584  | .9594  | .9604  | .9614  | .9623  | .9633  | .9643  | .9653  | .9663  |
| 111.....                     | .9577                                          | .9587  | .9597  | .9607  | .9617  | .9626  | .9636  | .9646  | .9656  | .9666  |
| 112.....                     | .9581                                          | .9591  | .9601  | .9611  | .9621  | .9630  | .9640  | .9650  | .9660  | .9670  |
| 113.....                     | .9584                                          | .9594  | .9604  | .9614  | .9624  | .9634  | .9644  | .9654  | .9664  | .9674  |
| 114.....                     | .9587                                          | .9597  | .9607  | .9617  | .9627  | .9637  | .9647  | .9657  | .9667  | .9677  |
| 115.....                     | .9590                                          | .9600  | .9610  | .9620  | .9630  | .9640  | .9650  | .9660  | .9670  | .9680  |
| 116.....                     | .9594                                          | .9604  | .9614  | .9624  | .9634  | .9644  | .9654  | .9664  | .9674  | .9684  |
| 117.....                     | .9597                                          | .9607  | .9617  | .9627  | .9637  | .9647  | .9657  | .9667  | .9677  | .9687  |
| 118.....                     | .9600                                          | .9610  | .9620  | .9630  | .9640  | .9650  | .9660  | .9670  | .9680  | .9690  |
| 119.....                     | .9604                                          | .9614  | .9624  | .9634  | .9644  | .9654  | .9664  | .9674  | .9684  | .9694  |
| 120.....                     | .9607                                          | .9617  | .9627  | .9637  | .9647  | .9657  | .9667  | .9677  | .9687  | .9697  |
| 121.....                     | .9611                                          | .9621  | .9631  | .9641  | .9651  | .9661  | .9671  | .9681  | .9691  | .9701  |
| 122.....                     | .9615                                          | .9625  | .9635  | .9645  | .9655  | .9665  | .9675  | .9685  | .9695  | .9705  |
| 123.....                     | .9619                                          | .9629  | .9639  | .9649  | .9659  | .9668  | .9678  | .9688  | .9698  | .9708  |
| 124.....                     | .9622                                          | .9632  | .9642  | .9652  | .9662  | .9671  | .9681  | .9691  | .9701  | .9711  |
| 125.....                     | .9625                                          | .9635  | .9645  | .9655  | .9665  | .9675  | .9685  | .9695  | .9705  | .9715  |
| 126.....                     | .9628                                          | .9638  | .9648  | .9658  | .9668  | .9678  | .9688  | .9698  | .9708  | .9718  |
| 127.....                     | .9631                                          | .9641  | .9651  | .9661  | .9671  | .9681  | .9691  | .9701  | .9711  | .9721  |
| 128.....                     | .9635                                          | .9645  | .9655  | .9665  | .9675  | .9685  | .9695  | .9705  | .9715  | .9725  |
| 129.....                     | .9639                                          | .9649  | .9659  | .9669  | .9679  | .9688  | .9698  | .9708  | .9718  | .9728  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.940                                          | 0.941  | 0.942  | 0.943  | 0.944  | 0.945  | 0.946  | 0.947  | 0.948  | 0.949  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 130.....                    | 0.9642                                         | 0.9652 | 0.9662 | 0.9672 | 0.9682 | 0.9692 | 0.9702 | 0.9712 | 0.9722 | 0.9732 |
| 131.....                    | .9646                                          | .9656  | .9666  | .9676  | .9686  | .9696  | .9706  | .9716  | .9726  | .9736  |
| 132.....                    | .9649                                          | .9659  | .9669  | .9679  | .9689  | .9699  | .9709  | .9719  | .9729  | .9739  |
| 133.....                    | .9652                                          | .9662  | .9672  | .9682  | .9692  | .9702  | .9712  | .9722  | .9732  | .9742  |
| 134.....                    | .9655                                          | .9665  | .9675  | .9685  | .9695  | .9705  | .9715  | .9725  | .9735  | .9745  |
| 135.....                    | .9659                                          | .9669  | .9679  | .9689  | .9699  | .9709  | .9719  | .9729  | .9739  | .9749  |
| 136.....                    | .9662                                          | .9672  | .9682  | .9692  | .9702  | .9712  | .9722  | .9732  | .9742  | .9752  |
| 137.....                    | .9665                                          | .9675  | .9685  | .9695  | .9705  | .9715  | .9725  | .9735  | .9745  | .9755  |
| 138.....                    | .9669                                          | .9679  | .9689  | .9699  | .9709  | .9719  | .9729  | .9739  | .9749  | .9759  |
| 139.....                    | .9673                                          | .9683  | .9693  | .9703  | .9713  | .9722  | .9732  | .9742  | .9752  | .9762  |
| 140.....                    | .9676                                          | .9686  | .9696  | .9706  | .9716  | .9725  | .9735  | .9745  | .9755  | .9765  |
| 141.....                    | .9680                                          | .9690  | .9700  | .9710  | .9720  | .9729  | .9739  | .9749  | .9759  | .9769  |
| 142.....                    | .9683                                          | .9693  | .9703  | .9713  | .9723  | .9732  | .9742  | .9752  | .9762  | .9772  |
| 143.....                    | .9686                                          | .9696  | .9706  | .9716  | .9726  | .9735  | .9745  | .9755  | .9765  | .9775  |
| 144.....                    | .9689                                          | .9699  | .9709  | .9719  | .9729  | .9739  | .9749  | .9759  | .9769  | .9779  |
| 145.....                    | .9692                                          | .9702  | .9712  | .9722  | .9732  | .9742  | .9752  | .9762  | .9772  | .9782  |
| 146.....                    | .9695                                          | .9705  | .9715  | .9725  | .9735  | .9745  | .9755  | .9765  | .9775  | .9785  |
| 147.....                    | .9699                                          | .9709  | .9719  | .9729  | .9739  | .9749  | .9759  | .9769  | .9779  | .9789  |
| 148.....                    | .9703                                          | .9713  | .9723  | .9733  | .9743  | .9752  | .9762  | .9772  | .9782  | .9792  |
| 149.....                    | .9706                                          | .9716  | .9726  | .9736  | .9746  | .9756  | .9766  | .9776  | .9786  | .9796  |
| 150.....                    | .9710                                          | .9720  | .9730  | .9740  | .9750  | .9759  | .9769  | .9779  | .9789  | .9799  |
| 151.....                    | .9713                                          | .9723  | .9733  | .9743  | .9753  | .9762  | .9772  | .9782  | .9792  | .9802  |
| 152.....                    | .9716                                          | .9726  | .9736  | .9746  | .9756  | .9765  | .9775  | .9785  | .9795  | .9805  |
| 153.....                    | .9720                                          | .9730  | .9740  | .9750  | .9760  | .9769  | .9779  | .9789  | .9799  | .9809  |
| 154.....                    | .9723                                          | .9733  | .9743  | .9753  | .9763  | .9772  | .9782  | .9792  | .9802  | .9812  |
| 155.....                    | .9726                                          | .9736  | .9746  | .9756  | .9766  | .9775  | .9785  | .9795  | .9805  | .9815  |
| 156.....                    | .9730                                          | .9740  | .9750  | .9760  | .9770  | .9779  | .9789  | .9799  | .9809  | .9819  |
| 157.....                    | .9734                                          | .9744  | .9754  | .9764  | .9774  | .9783  | .9793  | .9803  | .9813  | .9823  |
| 158.....                    | .9737                                          | .9747  | .9757  | .9767  | .9777  | .9786  | .9796  | .9806  | .9816  | .9826  |
| 159.....                    | .9740                                          | .9750  | .9760  | .9770  | .9780  | .9789  | .9799  | .9809  | .9819  | .9829  |
| 160.....                    | .9744                                          | .9754  | .9764  | .9774  | .9784  | .9793  | .9803  | .9813  | .9823  | .9833  |
| 161.....                    | .9747                                          | .9757  | .9767  | .9777  | .9787  | .9796  | .9806  | .9816  | .9826  | .9836  |
| 162.....                    | .9750                                          | .9760  | .9770  | .9780  | .9790  | .9799  | .9809  | .9819  | .9829  | .9839  |
| 163.....                    | .9753                                          | .9763  | .9773  | .9783  | .9793  | .9802  | .9812  | .9822  | .9832  | .9842  |
| 164.....                    | .9756                                          | .9766  | .9776  | .9786  | .9796  | .9805  | .9815  | .9825  | .9835  | .9845  |
| 165.....                    | .9760                                          | .9770  | .9780  | .9790  | .9800  | .9809  | .9819  | .9829  | .9839  | .9849  |
| 166.....                    | .9763                                          | .9773  | .9783  | .9793  | .9803  | .9812  | .9822  | .9832  | .9842  | .9852  |
| 167.....                    | .9767                                          | .9777  | .9787  | .9797  | .9807  | .9816  | .9826  | .9836  | .9846  | .9856  |
| 168.....                    | .9770                                          | .9780  | .9790  | .9800  | .9810  | .9819  | .9829  | .9839  | .9849  | .9859  |
| 169.....                    | .9773                                          | .9783  | .9793  | .9803  | .9813  | .9822  | .9832  | .9842  | .9852  | .9862  |
| 170.....                    | .9776                                          | .9786  | .9796  | .9806  | .9816  | .9825  | .9835  | .9845  | .9855  | .9865  |
| 171.....                    | .9780                                          | .9790  | .9800  | .9809  | .9819  | .9829  | .9839  | .9848  | .9858  | .9868  |
| 172.....                    | .9783                                          | .9793  | .9803  | .9812  | .9822  | .9832  | .9842  | .9852  | .9861  | .9871  |
| 173.....                    | .9786                                          | .9796  | .9806  | .9815  | .9825  | .9835  | .9845  | .9855  | .9864  | .9874  |
| 174.....                    | .9789                                          | .9799  | .9809  | .9819  | .9829  | .9838  | .9848  | .9858  | .9868  | .9878  |
| 175.....                    | .9792                                          | .9802  | .9812  | .9822  | .9832  | .9841  | .9851  | .9861  | .9871  | .9881  |
| 176.....                    | .9795                                          | .9805  | .9815  | .9825  | .9835  | .9844  | .9854  | .9864  | .9874  | .9884  |
| 177.....                    | .9799                                          | .9809  | .9819  | .9828  | .9838  | .9848  | .9858  | .9868  | .9877  | .9887  |
| 178.....                    | .9802                                          | .9812  | .9822  | .9831  | .9841  | .9851  | .9861  | .9871  | .9880  | .9890  |
| 179.....                    | .9805                                          | .9815  | .9825  | .9834  | .9844  | .9854  | .9864  | .9874  | .9883  | .9893  |
| 180.....                    | .9808                                          | .9818  | .9828  | .9837  | .9847  | .9857  | .9867  | .9877  | .9886  | .9896  |
| 181.....                    | .9811                                          | .9821  | .9831  | .9841  | .9851  | .9860  | .9870  | .9880  | .9890  | .9900  |
| 182.....                    | .9815                                          | .9825  | .9835  | .9844  | .9854  | .9864  | .9874  | .9884  | .9893  | .9903  |
| 183.....                    | .9818                                          | .9828  | .9838  | .9847  | .9857  | .9867  | .9877  | .9887  | .9896  | .9906  |
| 184.....                    | .9821                                          | .9831  | .9841  | .9850  | .9860  | .9870  | .9880  | .9890  | .9899  | .9909  |
| 185.....                    | .9824                                          | .9834  | .9844  | .9853  | .9863  | .9873  | .9883  | .9893  | .9902  | .9912  |
| 186.....                    | .9827                                          | .9837  | .9847  | .9856  | .9866  | .9876  | .9886  | .9896  | .9905  | .9915  |
| 187.....                    | .9830                                          | .9840  | .9850  | .9860  | .9870  | .9879  | .9889  | .9899  | .9909  | .9919  |
| 188.....                    | .9833                                          | .9843  | .9853  | .9863  | .9873  | .9882  | .9892  | .9902  | .9912  | .9922  |
| 189.....                    | .9836                                          | .9846  | .9856  | .9866  | .9876  | .9885  | .9895  | .9905  | .9915  | .9925  |
| 190.....                    | .9840                                          | .9850  | .9860  | .9869  | .9879  | .9889  | .9899  | .9909  | .9918  | .9928  |
| 191.....                    | .9843                                          | .9853  | .9863  | .9872  | .9882  | .9892  | .9902  | .9912  | .9921  | .9931  |
| 192.....                    | .9846                                          | .9856  | .9866  | .9875  | .9885  | .9895  | .9905  | .9915  | .9924  | .9934  |
| 193.....                    | .9850                                          | .9860  | .9870  | .9879  | .9889  | .9899  | .9909  | .9919  | .9928  | .9938  |
| 194.....                    | .9853                                          | .9863  | .9873  | .9882  | .9892  | .9902  | .9912  | .9922  | .9931  | .9941  |
| 195.....                    | .9856                                          | .9866  | .9876  | .9885  | .9895  | .9905  | .9915  | .9925  | .9934  | .9944  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.950                                          | 0.951  | 0.952  | 0.953  | 0.954  | 0.955  | 0.956  | 0.957  | 0.958  | 0.959  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.9285                                         | 0.9295 | 0.9305 | 0.9315 | 0.9325 | 0.9336 | 0.9346 | 0.9356 | 0.9366 | 0.9376 |
| 1.....                      | .9289                                          | .9299  | .9309  | .9319  | .9329  | .9339  | .9349  | .9359  | .9369  | .9379  |
| 2.....                      | .9292                                          | .9302  | .9312  | .9322  | .9332  | .9342  | .9352  | .9362  | .9372  | .9382  |
| 3.....                      | .9296                                          | .9306  | .9316  | .9326  | .9336  | .9346  | .9356  | .9366  | .9376  | .9386  |
| 4.....                      | .9300                                          | .9310  | .9320  | .9330  | .9340  | .9350  | .9360  | .9370  | .9380  | .9390  |
| 5.....                      | .9303                                          | .9313  | .9323  | .9333  | .9343  | .9353  | .9363  | .9373  | .9383  | .9393  |
| 6.....                      | .9307                                          | .9317  | .9327  | .9337  | .9347  | .9357  | .9367  | .9377  | .9387  | .9397  |
| 7.....                      | .9310                                          | .9320  | .9330  | .9340  | .9350  | .9360  | .9370  | .9380  | .9390  | .9400  |
| 8.....                      | .9313                                          | .9323  | .9333  | .9343  | .9353  | .9363  | .9373  | .9383  | .9393  | .9403  |
| 9.....                      | .9317                                          | .9327  | .9337  | .9347  | .9357  | .9367  | .9377  | .9387  | .9397  | .9407  |
| 10.....                     | .9321                                          | .9331  | .9341  | .9351  | .9361  | .9371  | .9381  | .9391  | .9401  | .9411  |
| 11.....                     | .9324                                          | .9334  | .9344  | .9354  | .9364  | .9374  | .9384  | .9394  | .9404  | .9414  |
| 12.....                     | .9328                                          | .9338  | .9348  | .9358  | .9368  | .9378  | .9388  | .9398  | .9408  | .9418  |
| 13.....                     | .9331                                          | .9341  | .9351  | .9361  | .9371  | .9381  | .9391  | .9401  | .9411  | .9421  |
| 14.....                     | .9335                                          | .9345  | .9355  | .9365  | .9375  | .9385  | .9395  | .9405  | .9415  | .9425  |
| 15.....                     | .9338                                          | .9348  | .9358  | .9368  | .9378  | .9388  | .9398  | .9408  | .9418  | .9428  |
| 16.....                     | .9342                                          | .9352  | .9362  | .9372  | .9382  | .9392  | .9402  | .9412  | .9422  | .9432  |
| 17.....                     | .9345                                          | .9355  | .9365  | .9375  | .9385  | .9395  | .9405  | .9415  | .9425  | .9435  |
| 18.....                     | .9349                                          | .9359  | .9369  | .9379  | .9389  | .9399  | .9409  | .9419  | .9429  | .9439  |
| 19.....                     | .9353                                          | .9363  | .9373  | .9383  | .9393  | .9403  | .9413  | .9423  | .9433  | .9443  |
| 20.....                     | .9356                                          | .9366  | .9376  | .9386  | .9396  | .9406  | .9416  | .9426  | .9436  | .9446  |
| 21.....                     | .9360                                          | .9370  | .9380  | .9390  | .9400  | .9410  | .9420  | .9430  | .9440  | .9450  |
| 22.....                     | .9364                                          | .9374  | .9384  | .9394  | .9404  | .9414  | .9424  | .9434  | .9444  | .9454  |
| 23.....                     | .9367                                          | .9377  | .9387  | .9397  | .9407  | .9418  | .9428  | .9438  | .9448  | .9458  |
| 24.....                     | .9371                                          | .9381  | .9391  | .9401  | .9411  | .9421  | .9431  | .9441  | .9451  | .9461  |
| 25.....                     | .9374                                          | .9384  | .9394  | .9404  | .9414  | .9424  | .9434  | .9444  | .9454  | .9464  |
| 26.....                     | .9378                                          | .9388  | .9398  | .9408  | .9418  | .9428  | .9438  | .9448  | .9458  | .9468  |
| 27.....                     | .9382                                          | .9392  | .9402  | .9412  | .9422  | .9432  | .9442  | .9452  | .9462  | .9472  |
| 28.....                     | .9386                                          | .9396  | .9406  | .9416  | .9426  | .9436  | .9446  | .9456  | .9466  | .9476  |
| 29.....                     | .9390                                          | .9400  | .9410  | .9420  | .9430  | .9440  | .9450  | .9460  | .9470  | .9480  |
| 30.....                     | .9393                                          | .9403  | .9413  | .9423  | .9433  | .9443  | .9453  | .9463  | .9473  | .9483  |
| 31.....                     | .9397                                          | .9407  | .9417  | .9427  | .9437  | .9447  | .9457  | .9467  | .9477  | .9487  |
| 32.....                     | .9400                                          | .9410  | .9420  | .9430  | .9440  | .9450  | .9460  | .9470  | .9480  | .9490  |
| 33.....                     | .9404                                          | .9414  | .9424  | .9434  | .9444  | .9454  | .9464  | .9474  | .9484  | .9494  |
| 34.....                     | .9407                                          | .9417  | .9427  | .9437  | .9447  | .9457  | .9467  | .9477  | .9487  | .9497  |
| 35.....                     | .9411                                          | .9421  | .9431  | .9441  | .9451  | .9461  | .9471  | .9481  | .9491  | .9501  |
| 36.....                     | .9414                                          | .9424  | .9434  | .9444  | .9454  | .9464  | .9474  | .9484  | .9494  | .9504  |
| 37.....                     | .9418                                          | .9428  | .9438  | .9448  | .9458  | .9468  | .9478  | .9488  | .9498  | .9508  |
| 38.....                     | .9422                                          | .9432  | .9442  | .9452  | .9462  | .9472  | .9482  | .9492  | .9502  | .9512  |
| 39.....                     | .9425                                          | .9435  | .9445  | .9455  | .9465  | .9475  | .9485  | .9495  | .9505  | .9515  |
| 40.....                     | .9429                                          | .9439  | .9449  | .9459  | .9469  | .9479  | .9489  | .9499  | .9509  | .9519  |
| 41.....                     | .9432                                          | .9442  | .9452  | .9462  | .9472  | .9483  | .9493  | .9503  | .9513  | .9523  |
| 42.....                     | .9436                                          | .9446  | .9456  | .9466  | .9476  | .9486  | .9496  | .9506  | .9516  | .9526  |
| 43.....                     | .9440                                          | .9450  | .9460  | .9470  | .9480  | .9490  | .9500  | .9510  | .9520  | .9530  |
| 44.....                     | .9443                                          | .9453  | .9463  | .9473  | .9483  | .9493  | .9503  | .9513  | .9523  | .9533  |
| 45.....                     | .9447                                          | .9457  | .9467  | .9477  | .9487  | .9497  | .9507  | .9517  | .9527  | .9537  |
| 46.....                     | .9450                                          | .9460  | .9470  | .9480  | .9490  | .9500  | .9510  | .9520  | .9530  | .9540  |
| 47.....                     | .9454                                          | .9464  | .9474  | .9484  | .9494  | .9504  | .9514  | .9524  | .9534  | .9544  |
| 48.....                     | .9457                                          | .9467  | .9477  | .9487  | .9497  | .9507  | .9517  | .9527  | .9537  | .9547  |
| 49.....                     | .9461                                          | .9471  | .9481  | .9491  | .9501  | .9511  | .9521  | .9531  | .9541  | .9551  |
| 50.....                     | .9465                                          | .9475  | .9485  | .9495  | .9505  | .9515  | .9525  | .9535  | .9545  | .9555  |
| 51.....                     | .9468                                          | .9478  | .9488  | .9498  | .9508  | .9518  | .9528  | .9538  | .9548  | .9558  |
| 52.....                     | .9472                                          | .9482  | .9492  | .9502  | .9512  | .9522  | .9532  | .9542  | .9552  | .9562  |
| 53.....                     | .9475                                          | .9485  | .9495  | .9505  | .9515  | .9525  | .9535  | .9545  | .9555  | .9565  |
| 54.....                     | .9479                                          | .9489  | .9499  | .9509  | .9519  | .9529  | .9539  | .9549  | .9559  | .9569  |
| 55.....                     | .9482                                          | .9492  | .9502  | .9512  | .9522  | .9532  | .9542  | .9552  | .9562  | .9572  |
| 56.....                     | .9486                                          | .9496  | .9506  | .9516  | .9526  | .9536  | .9546  | .9556  | .9566  | .9576  |
| 57.....                     | .9490                                          | .9500  | .9510  | .9520  | .9530  | .9540  | .9550  | .9560  | .9570  | .9580  |
| 58.....                     | .9493                                          | .9503  | .9513  | .9523  | .9533  | .9543  | .9553  | .9563  | .9573  | .9583  |
| 59.....                     | .9497                                          | .9507  | .9517  | .9527  | .9537  | .9547  | .9557  | .9567  | .9577  | .9587  |
| 60.....                     | .9500                                          | .9510  | .9520  | .9530  | .9540  | .9550  | .9560  | .9570  | .9580  | .9590  |
| 61.....                     | .9504                                          | .9514  | .9524  | .9534  | .9544  | .9554  | .9564  | .9574  | .9584  | .9594  |
| 62.....                     | .9507                                          | .9517  | .9527  | .9537  | .9547  | .9557  | .9567  | .9577  | .9587  | .9597  |
| 63.....                     | .9510                                          | .9520  | .9530  | .9540  | .9550  | .9560  | .9570  | .9580  | .9590  | .9600  |
| 64.....                     | .9514                                          | .9524  | .9534  | .9544  | .9554  | .9564  | .9574  | .9584  | .9594  | .9604  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.950                                          | 0.951  | 0.952  | 0.953  | 0.954  | 0.955  | 0.956  | 0.957  | 0.958  | 0.959  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                     | 0.9518                                         | 0.9528 | 0.9538 | 0.9548 | 0.9558 | 0.9568 | 0.9578 | 0.9588 | 0.9598 | 0.9608 |
| 66.....                     | .9521                                          | .9531  | .9541  | .9551  | .9561  | .9571  | .9581  | .9591  | .9601  | .9611  |
| 67.....                     | .9525                                          | .9535  | .9545  | .9555  | .9565  | .9575  | .9585  | .9595  | .9605  | .9615  |
| 68.....                     | .9528                                          | .9538  | .9548  | .9558  | .9568  | .9578  | .9588  | .9598  | .9608  | .9618  |
| 69.....                     | .9531                                          | .9541  | .9551  | .9561  | .9571  | .9581  | .9591  | .9601  | .9611  | .9621  |
| 70.....                     | .9535                                          | .9545  | .9555  | .9565  | .9575  | .9585  | .9595  | .9605  | .9615  | .9625  |
| 71.....                     | .9538                                          | .9548  | .9558  | .9568  | .9578  | .9588  | .9598  | .9608  | .9618  | .9628  |
| 72.....                     | .9542                                          | .9552  | .9562  | .9572  | .9582  | .9592  | .9602  | .9612  | .9622  | .9632  |
| 73.....                     | .9545                                          | .9555  | .9565  | .9575  | .9585  | .9595  | .9605  | .9615  | .9625  | .9635  |
| 74.....                     | .9549                                          | .9559  | .9569  | .9579  | .9589  | .9599  | .9609  | .9619  | .9629  | .9639  |
| 75.....                     | .9553                                          | .9563  | .9573  | .9583  | .9593  | .9603  | .9613  | .9623  | .9633  | .9643  |
| 76.....                     | .9556                                          | .9566  | .9576  | .9586  | .9596  | .9606  | .9616  | .9626  | .9636  | .9646  |
| 77.....                     | .9560                                          | .9570  | .9580  | .9590  | .9600  | .9610  | .9620  | .9630  | .9640  | .9650  |
| 78.....                     | .9563                                          | .9573  | .9583  | .9593  | .9603  | .9613  | .9623  | .9633  | .9643  | .9653  |
| 79.....                     | .9566                                          | .9576  | .9586  | .9596  | .9606  | .9616  | .9626  | .9636  | .9646  | .9656  |
| 80.....                     | .9570                                          | .9580  | .9590  | .9600  | .9610  | .9620  | .9630  | .9640  | .9650  | .9660  |
| 81.....                     | .9574                                          | .9584  | .9594  | .9604  | .9614  | .9624  | .9634  | .9644  | .9654  | .9664  |
| 82.....                     | .9577                                          | .9587  | .9597  | .9607  | .9617  | .9627  | .9637  | .9647  | .9657  | .9667  |
| 83.....                     | .9581                                          | .9591  | .9601  | .9611  | .9621  | .9631  | .9641  | .9651  | .9661  | .9671  |
| 84.....                     | .9584                                          | .9594  | .9604  | .9614  | .9624  | .9634  | .9644  | .9654  | .9664  | .9674  |
| 85.....                     | .9588                                          | .9598  | .9608  | .9618  | .9628  | .9637  | .9647  | .9657  | .9667  | .9677  |
| 86.....                     | .9591                                          | .9601  | .9611  | .9621  | .9631  | .9641  | .9651  | .9661  | .9671  | .9681  |
| 87.....                     | .9595                                          | .9605  | .9615  | .9625  | .9635  | .9644  | .9654  | .9664  | .9674  | .9684  |
| 88.....                     | .9598                                          | .9608  | .9618  | .9628  | .9638  | .9648  | .9658  | .9668  | .9678  | .9688  |
| 89.....                     | .9602                                          | .9612  | .9622  | .9632  | .9642  | .9651  | .9661  | .9671  | .9681  | .9691  |
| 90.....                     | .9605                                          | .9615  | .9625  | .9635  | .9645  | .9654  | .9664  | .9674  | .9684  | .9694  |
| 91.....                     | .9609                                          | .9619  | .9629  | .9639  | .9649  | .9658  | .9668  | .9678  | .9688  | .9698  |
| 92.....                     | .9612                                          | .9622  | .9632  | .9642  | .9652  | .9662  | .9672  | .9682  | .9692  | .9702  |
| 93.....                     | .9615                                          | .9625  | .9635  | .9645  | .9655  | .9665  | .9675  | .9685  | .9695  | .9705  |
| 94.....                     | .9618                                          | .9628  | .9638  | .9648  | .9658  | .9668  | .9678  | .9688  | .9698  | .9708  |
| 95.....                     | .9622                                          | .9632  | .9642  | .9652  | .9662  | .9672  | .9682  | .9692  | .9702  | .9712  |
| 96.....                     | .9625                                          | .9635  | .9645  | .9655  | .9665  | .9675  | .9685  | .9695  | .9705  | .9715  |
| 97.....                     | .9629                                          | .9639  | .9649  | .9659  | .9669  | .9679  | .9689  | .9699  | .9709  | .9719  |
| 98.....                     | .9633                                          | .9643  | .9653  | .9663  | .9673  | .9682  | .9692  | .9702  | .9712  | .9722  |
| 99.....                     | .9636                                          | .9646  | .9656  | .9666  | .9676  | .9686  | .9696  | .9706  | .9716  | .9726  |
| 100.....                    | .9639                                          | .9649  | .9659  | .9669  | .9679  | .9689  | .9699  | .9709  | .9719  | .9729  |
| 101.....                    | .9643                                          | .9653  | .9663  | .9673  | .9683  | .9693  | .9703  | .9713  | .9723  | .9733  |
| 102.....                    | .9646                                          | .9656  | .9666  | .9676  | .9686  | .9696  | .9706  | .9716  | .9726  | .9735  |
| 103.....                    | .9649                                          | .9659  | .9669  | .9679  | .9689  | .9699  | .9709  | .9719  | .9729  | .9739  |
| 104.....                    | .9653                                          | .9663  | .9673  | .9683  | .9693  | .9703  | .9713  | .9723  | .9733  | .9743  |
| 105.....                    | .9656                                          | .9666  | .9676  | .9686  | .9696  | .9706  | .9716  | .9726  | .9736  | .9746  |
| 106.....                    | .9659                                          | .9669  | .9679  | .9689  | .9699  | .9709  | .9719  | .9729  | .9739  | .9749  |
| 107.....                    | .9663                                          | .9673  | .9683  | .9693  | .9703  | .9713  | .9723  | .9733  | .9743  | .9753  |
| 108.....                    | .9666                                          | .9676  | .9686  | .9696  | .9706  | .9716  | .9726  | .9736  | .9746  | .9756  |
| 109.....                    | .9670                                          | .9680  | .9690  | .9700  | .9710  | .9720  | .9730  | .9740  | .9750  | .9760  |
| 110.....                    | .9673                                          | .9683  | .9693  | .9703  | .9713  | .9723  | .9733  | .9743  | .9753  | .9763  |
| 111.....                    | .9676                                          | .9686  | .9696  | .9706  | .9716  | .9726  | .9736  | .9746  | .9756  | .9766  |
| 112.....                    | .9680                                          | .9690  | .9700  | .9710  | .9720  | .9730  | .9740  | .9750  | .9760  | .9770  |
| 113.....                    | .9684                                          | .9694  | .9704  | .9714  | .9724  | .9734  | .9744  | .9754  | .9764  | .9774  |
| 114.....                    | .9687                                          | .9697  | .9707  | .9717  | .9727  | .9737  | .9747  | .9757  | .9767  | .9777  |
| 115.....                    | .9690                                          | .9700  | .9710  | .9720  | .9730  | .9740  | .9750  | .9760  | .9770  | .9780  |
| 116.....                    | .9694                                          | .9704  | .9714  | .9724  | .9734  | .9744  | .9754  | .9764  | .9774  | .9784  |
| 117.....                    | .9697                                          | .9707  | .9717  | .9727  | .9737  | .9747  | .9757  | .9767  | .9777  | .9787  |
| 118.....                    | .9700                                          | .9710  | .9720  | .9730  | .9740  | .9750  | .9760  | .9770  | .9780  | .9790  |
| 119.....                    | .9704                                          | .9714  | .9724  | .9734  | .9744  | .9754  | .9764  | .9774  | .9784  | .9794  |
| 120.....                    | .9707                                          | .9717  | .9727  | .9737  | .9747  | .9757  | .9767  | .9777  | .9787  | .9797  |
| 121.....                    | .9711                                          | .9721  | .9731  | .9741  | .9751  | .9761  | .9771  | .9781  | .9791  | .9801  |
| 122.....                    | .9715                                          | .9725  | .9735  | .9745  | .9755  | .9765  | .9775  | .9785  | .9795  | .9805  |
| 123.....                    | .9718                                          | .9728  | .9738  | .9748  | .9758  | .9768  | .9778  | .9788  | .9798  | .9808  |
| 124.....                    | .9721                                          | .9731  | .9741  | .9751  | .9761  | .9771  | .9781  | .9791  | .9801  | .9811  |
| 125.....                    | .9725                                          | .9735  | .9745  | .9755  | .9765  | .9775  | .9785  | .9795  | .9805  | .9815  |
| 126.....                    | .9728                                          | .9738  | .9748  | .9758  | .9768  | .9778  | .9788  | .9798  | .9808  | .9818  |
| 127.....                    | .9731                                          | .9741  | .9751  | .9761  | .9771  | .9781  | .9791  | .9801  | .9811  | .9821  |
| 128.....                    | .9735                                          | .9745  | .9755  | .9765  | .9775  | .9785  | .9795  | .9805  | .9815  | .9825  |
| 129.....                    | .9738                                          | .9748  | .9758  | .9768  | .9778  | .9788  | .9798  | .9808  | .9818  | .9828  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in ° F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 0.950                                          | 0.951  | 0.952  | 0.953  | 0.954  | 0.955  | 0.956  | 0.957  | 0.958  | 0.959  |
|                              | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 130.....                     | 0.9742                                         | 0.9752 | 0.9762 | 0.9772 | 0.9782 | 0.9791 | 0.9801 | 0.9811 | 0.9821 | 0.9831 |
| 131.....                     | .9746                                          | .9756  | .9766  | .9776  | .9786  | .9795  | .9805  | .9815  | .9825  | .9835  |
| 132.....                     | .9749                                          | .9759  | .9769  | .9779  | .9789  | .9798  | .9808  | .9818  | .9828  | .9838  |
| 133.....                     | .9752                                          | .9762  | .9772  | .9782  | .9792  | .9801  | .9811  | .9821  | .9831  | .9841  |
| 134.....                     | .9755                                          | .9765  | .9775  | .9785  | .9795  | .9805  | .9815  | .9825  | .9835  | .9845  |
| 135.....                     | .9759                                          | .9769  | .9779  | .9789  | .9799  | .9808  | .9818  | .9828  | .9838  | .9848  |
| 136.....                     | .9762                                          | .9772  | .9782  | .9792  | .9802  | .9811  | .9821  | .9831  | .9841  | .9851  |
| 137.....                     | .9765                                          | .9775  | .9785  | .9795  | .9805  | .9815  | .9825  | .9835  | .9845  | .9855  |
| 138.....                     | .9769                                          | .9779  | .9789  | .9799  | .9809  | .9818  | .9828  | .9838  | .9848  | .9858  |
| 139.....                     | .9772                                          | .9782  | .9792  | .9802  | .9812  | .9821  | .9831  | .9841  | .9851  | .9861  |
| 140.....                     | .9775                                          | .9785  | .9795  | .9805  | .9815  | .9825  | .9835  | .9845  | .9855  | .9865  |
| 141.....                     | .9779                                          | .9789  | .9799  | .9809  | .9819  | .9828  | .9838  | .9848  | .9858  | .9868  |
| 142.....                     | .9782                                          | .9792  | .9802  | .9812  | .9822  | .9831  | .9841  | .9851  | .9861  | .9871  |
| 143.....                     | .9785                                          | .9795  | .9805  | .9815  | .9825  | .9834  | .9844  | .9854  | .9864  | .9874  |
| 144.....                     | .9789                                          | .9799  | .9809  | .9819  | .9829  | .9838  | .9848  | .9858  | .9868  | .9878  |
| 145.....                     | .9792                                          | .9802  | .9812  | .9822  | .9832  | .9841  | .9851  | .9861  | .9871  | .9881  |
| 146.....                     | .9795                                          | .9805  | .9815  | .9825  | .9835  | .9845  | .9855  | .9865  | .9875  | .9885  |
| 147.....                     | .9799                                          | .9809  | .9819  | .9829  | .9839  | .9848  | .9858  | .9868  | .9878  | .9888  |
| 148.....                     | .9802                                          | .9812  | .9822  | .9832  | .9842  | .9851  | .9861  | .9871  | .9881  | .9891  |
| 149.....                     | .9806                                          | .9816  | .9826  | .9836  | .9846  | .9855  | .9865  | .9875  | .9885  | .9895  |
| 150.....                     | .9809                                          | .9819  | .9829  | .9839  | .9849  | .9858  | .9868  | .9878  | .9888  | .9898  |
| 151.....                     | .9812                                          | .9822  | .9832  | .9842  | .9852  | .9861  | .9871  | .9881  | .9891  | .9901  |
| 152.....                     | .9815                                          | .9825  | .9835  | .9845  | .9855  | .9864  | .9874  | .9884  | .9894  | .9904  |
| 153.....                     | .9819                                          | .9829  | .9839  | .9849  | .9859  | .9868  | .9878  | .9888  | .9898  | .9908  |
| 154.....                     | .9822                                          | .9832  | .9842  | .9852  | .9862  | .9871  | .9881  | .9891  | .9901  | .9911  |
| 155.....                     | .9825                                          | .9835  | .9845  | .9855  | .9865  | .9875  | .9885  | .9895  | .9905  | .9915  |
| 156.....                     | .9829                                          | .9839  | .9849  | .9859  | .9869  | .9878  | .9888  | .9898  | .9908  | .9918  |
| 157.....                     | .9833                                          | .9843  | .9853  | .9863  | .9873  | .9882  | .9892  | .9902  | .9912  | .9922  |
| 158.....                     | .9836                                          | .9846  | .9856  | .9866  | .9876  | .9886  | .9896  | .9906  | .9916  | .9926  |
| 159.....                     | .9839                                          | .9849  | .9859  | .9869  | .9879  | .9889  | .9899  | .9909  | .9919  | .9929  |
| 160.....                     | .9843                                          | .9853  | .9863  | .9873  | .9883  | .9892  | .9902  | .9912  | .9922  | .9932  |
| 161.....                     | .9846                                          | .9856  | .9866  | .9876  | .9886  | .9895  | .9905  | .9915  | .9925  | .9935  |
| 162.....                     | .9849                                          | .9859  | .9869  | .9879  | .9889  | .9898  | .9908  | .9918  | .9928  | .9938  |
| 163.....                     | .9852                                          | .9862  | .9872  | .9882  | .9892  | .9901  | .9911  | .9921  | .9931  | .9941  |
| 164.....                     | .9855                                          | .9865  | .9875  | .9885  | .9895  | .9904  | .9914  | .9924  | .9934  | .9944  |
| 165.....                     | .9859                                          | .9869  | .9879  | .9889  | .9899  | .9908  | .9918  | .9928  | .9938  | .9948  |
| 166.....                     | .9862                                          | .9872  | .9882  | .9892  | .9902  | .9911  | .9921  | .9931  | .9941  | .9951  |
| 167.....                     | .9866                                          | .9876  | .9886  | .9896  | .9906  | .9915  | .9925  | .9935  | .9945  | .9955  |
| 168.....                     | .9869                                          | .9879  | .9889  | .9899  | .9909  | .9918  | .9928  | .9938  | .9948  | .9958  |
| 169.....                     | .9872                                          | .9882  | .9892  | .9902  | .9912  | .9921  | .9931  | .9941  | .9951  | .9961  |
| 170.....                     | .9875                                          | .9885  | .9895  | .9905  | .9915  | .9924  | .9934  | .9944  | .9954  | .9964  |
| 171.....                     | .9878                                          | .9888  | .9898  | .9908  | .9918  | .9927  | .9937  | .9947  | .9957  | .9967  |
| 172.....                     | .9881                                          | .9891  | .9901  | .9911  | .9921  | .9930  | .9940  | .9950  | .9960  | .9970  |
| 173.....                     | .9884                                          | .9894  | .9904  | .9914  | .9924  | .9933  | .9943  | .9953  | .9963  | .9973  |
| 174.....                     | .9888                                          | .9898  | .9908  | .9917  | .9927  | .9937  | .9947  | .9957  | .9966  | .9976  |
| 175.....                     | .9891                                          | .9901  | .9911  | .9920  | .9930  | .9940  | .9950  | .9960  | .9969  | .9979  |
| 176.....                     | .9894                                          | .9904  | .9914  | .9923  | .9933  | .9943  | .9953  | .9963  | .9972  | .9982  |
| 177.....                     | .9897                                          | .9907  | .9917  | .9927  | .9937  | .9946  | .9956  | .9966  | .9976  | .9986  |
| 178.....                     | .9900                                          | .9910  | .9920  | .9930  | .9940  | .9949  | .9959  | .9969  | .9979  | .9989  |
| 179.....                     | .9903                                          | .9913  | .9923  | .9933  | .9943  | .9952  | .9962  | .9972  | .9982  | .9992  |
| 180.....                     | .9906                                          | .9916  | .9926  | .9936  | .9946  | .9955  | .9965  | .9975  | .9985  | .9995  |
| 181.....                     | .9910                                          | .9920  | .9930  | .9939  | .9949  | .9959  | .9969  | .9979  | .9988  | .9998  |
| 182.....                     | .9913                                          | .9923  | .9933  | .9942  | .9952  | .9962  | .9972  | .9982  | .9991  | 1.0001 |
| 183.....                     | .9916                                          | .9926  | .9936  | .9946  | .9956  | .9965  | .9975  | .9985  | .9995  | 1.0005 |
| 184.....                     | .9919                                          | .9929  | .9939  | .9949  | .9959  | .9968  | .9978  | .9988  | .9998  | 1.0008 |
| 185.....                     | .9922                                          | .9932  | .9942  | .9952  | .9962  | .9971  | .9981  | .9991  | 1.0001 | 1.0011 |
| 186.....                     | .9925                                          | .9935  | .9945  | .9955  | .9965  | .9974  | .9984  | .9994  | 1.0004 | 1.0014 |
| 187.....                     | .9929                                          | .9939  | .9949  | .9959  | .9969  | .9978  | .9988  | .9998  | 1.0008 | 1.0018 |
| 188.....                     | .9932                                          | .9942  | .9952  | .9962  | .9972  | .9981  | .9991  | 1.0001 | 1.0011 | 1.0021 |
| 189.....                     | .9935                                          | .9945  | .9955  | .9965  | .9975  | .9984  | .9994  | 1.0004 | 1.0014 | 1.0024 |
| 190.....                     | .9938                                          | .9948  | .9958  | .9968  | .9978  | .9987  | .9997  | 1.0007 | 1.0017 | 1.0027 |
| 191.....                     | .9941                                          | .9951  | .9961  | .9971  | .9981  | .9990  | 1.0000 | 1.0010 | 1.0020 | 1.0030 |
| 192.....                     | .9944                                          | .9954  | .9964  | .9974  | .9984  | .9993  | 1.0003 | 1.0013 | 1.0023 | 1.0033 |
| 193.....                     | .9948                                          | .9958  | .9968  | .9977  | .9987  | .9997  | 1.0007 | 1.0017 | 1.0026 | 1.0036 |
| 194.....                     | .9951                                          | .9961  | .9971  | .9981  | .9991  | 1.0000 | 1.0010 | 1.0020 | 1.0030 | 1.0040 |
| 195.....                     | .9954                                          | .9964  | .9974  | .9984  | .9994  | 1.0003 | 1.0013 | 1.0023 | 1.0033 | 1.0043 |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.960                                          | 0.961  | 0.962  | 0.963  | 0.964  | 0.965  | 0.966  | 0.967  | 0.968  | 0.969  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.9386                                         | 0.9396 | 0.9406 | 0.9416 | 0.9426 | 0.9436 | 0.9446 | 0.9456 | 0.9466 | 0.9476 |
| 1.....                      | .9389                                          | .9399  | .9409  | .9419  | .9429  | .9439  | .9449  | .9459  | .9469  | .9479  |
| 2.....                      | .9392                                          | .9402  | .9412  | .9422  | .9432  | .9442  | .9452  | .9462  | .9472  | .9482  |
| 3.....                      | .9396                                          | .9406  | .9416  | .9426  | .9436  | .9446  | .9456  | .9466  | .9476  | .9486  |
| 4.....                      | .9400                                          | .9410  | .9420  | .9430  | .9440  | .9450  | .9460  | .9470  | .9480  | .9490  |
| 5.....                      | .9403                                          | .9413  | .9423  | .9433  | .9443  | .9453  | .9463  | .9473  | .9483  | .9493  |
| 6.....                      | .9407                                          | .9417  | .9427  | .9437  | .9447  | .9457  | .9467  | .9477  | .9487  | .9497  |
| 7.....                      | .9410                                          | .9420  | .9430  | .9440  | .9450  | .9460  | .9470  | .9480  | .9490  | .9500  |
| 8.....                      | .9413                                          | .9423  | .9433  | .9443  | .9453  | .9463  | .9473  | .9483  | .9493  | .9503  |
| 9.....                      | .9417                                          | .9427  | .9437  | .9447  | .9457  | .9467  | .9477  | .9487  | .9497  | .9507  |
| 10.....                     | .9421                                          | .9431  | .9441  | .9451  | .9461  | .9471  | .9481  | .9491  | .9501  | .9511  |
| 11.....                     | .9424                                          | .9434  | .9444  | .9454  | .9464  | .9474  | .9484  | .9494  | .9504  | .9514  |
| 12.....                     | .9428                                          | .9438  | .9448  | .9458  | .9468  | .9478  | .9488  | .9498  | .9508  | .9518  |
| 13.....                     | .9431                                          | .9441  | .9451  | .9461  | .9471  | .9481  | .9491  | .9501  | .9511  | .9521  |
| 14.....                     | .9435                                          | .9445  | .9455  | .9465  | .9475  | .9485  | .9495  | .9505  | .9515  | .9525  |
| 15.....                     | .9438                                          | .9448  | .9458  | .9468  | .9478  | .9488  | .9498  | .9508  | .9518  | .9528  |
| 16.....                     | .9442                                          | .9452  | .9462  | .9472  | .9482  | .9492  | .9502  | .9512  | .9522  | .9532  |
| 17.....                     | .9445                                          | .9455  | .9465  | .9475  | .9485  | .9495  | .9505  | .9515  | .9525  | .9535  |
| 18.....                     | .9449                                          | .9459  | .9469  | .9479  | .9489  | .9499  | .9509  | .9519  | .9529  | .9539  |
| 19.....                     | .9453                                          | .9463  | .9473  | .9483  | .9493  | .9503  | .9513  | .9523  | .9533  | .9543  |
| 20.....                     | .9456                                          | .9466  | .9476  | .9486  | .9496  | .9506  | .9516  | .9526  | .9536  | .9546  |
| 21.....                     | .9460                                          | .9470  | .9480  | .9490  | .9500  | .9510  | .9520  | .9530  | .9540  | .9550  |
| 22.....                     | .9464                                          | .9474  | .9484  | .9494  | .9504  | .9514  | .9524  | .9534  | .9544  | .9554  |
| 23.....                     | .9468                                          | .9478  | .9488  | .9498  | .9508  | .9518  | .9528  | .9538  | .9548  | .9558  |
| 24.....                     | .9471                                          | .9481  | .9491  | .9501  | .9511  | .9521  | .9531  | .9541  | .9551  | .9561  |
| 25.....                     | .9474                                          | .9484  | .9494  | .9504  | .9514  | .9524  | .9534  | .9544  | .9554  | .9564  |
| 26.....                     | .9478                                          | .9488  | .9498  | .9508  | .9518  | .9528  | .9538  | .9548  | .9558  | .9568  |
| 27.....                     | .9482                                          | .9492  | .9502  | .9512  | .9522  | .9532  | .9542  | .9552  | .9562  | .9572  |
| 28.....                     | .9486                                          | .9496  | .9506  | .9516  | .9526  | .9536  | .9546  | .9556  | .9566  | .9576  |
| 29.....                     | .9490                                          | .9500  | .9510  | .9520  | .9530  | .9540  | .9550  | .9560  | .9570  | .9580  |
| 30.....                     | .9493                                          | .9503  | .9513  | .9523  | .9533  | .9543  | .9553  | .9563  | .9573  | .9583  |
| 31.....                     | .9497                                          | .9507  | .9517  | .9527  | .9537  | .9547  | .9557  | .9567  | .9577  | .9587  |
| 32.....                     | .9500                                          | .9510  | .9520  | .9530  | .9540  | .9551  | .9561  | .9571  | .9581  | .9591  |
| 33.....                     | .9504                                          | .9514  | .9524  | .9534  | .9544  | .9554  | .9564  | .9574  | .9584  | .9594  |
| 34.....                     | .9507                                          | .9517  | .9527  | .9537  | .9547  | .9557  | .9567  | .9577  | .9587  | .9597  |
| 35.....                     | .9511                                          | .9521  | .9531  | .9541  | .9551  | .9561  | .9571  | .9581  | .9591  | .9601  |
| 36.....                     | .9514                                          | .9524  | .9534  | .9544  | .9554  | .9564  | .9574  | .9584  | .9594  | .9604  |
| 37.....                     | .9518                                          | .9528  | .9538  | .9548  | .9558  | .9568  | .9578  | .9588  | .9598  | .9608  |
| 38.....                     | .9522                                          | .9532  | .9542  | .9552  | .9562  | .9572  | .9582  | .9592  | .9602  | .9612  |
| 39.....                     | .9525                                          | .9535  | .9545  | .9555  | .9565  | .9575  | .9585  | .9595  | .9605  | .9615  |
| 40.....                     | .9529                                          | .9539  | .9549  | .9559  | .9569  | .9579  | .9589  | .9599  | .9609  | .9619  |
| 41.....                     | .9533                                          | .9543  | .9553  | .9563  | .9573  | .9583  | .9593  | .9603  | .9613  | .9623  |
| 42.....                     | .9536                                          | .9546  | .9556  | .9566  | .9576  | .9586  | .9596  | .9606  | .9616  | .9626  |
| 43.....                     | .9540                                          | .9550  | .9560  | .9570  | .9580  | .9590  | .9600  | .9610  | .9620  | .9630  |
| 44.....                     | .9543                                          | .9553  | .9563  | .9573  | .9583  | .9593  | .9603  | .9613  | .9623  | .9633  |
| 45.....                     | .9547                                          | .9557  | .9567  | .9577  | .9587  | .9597  | .9607  | .9617  | .9627  | .9637  |
| 46.....                     | .9550                                          | .9560  | .9570  | .9580  | .9590  | .9600  | .9610  | .9620  | .9630  | .9640  |
| 47.....                     | .9554                                          | .9564  | .9574  | .9584  | .9594  | .9604  | .9614  | .9624  | .9634  | .9644  |
| 48.....                     | .9557                                          | .9567  | .9577  | .9587  | .9597  | .9607  | .9617  | .9627  | .9637  | .9647  |
| 49.....                     | .9561                                          | .9571  | .9581  | .9591  | .9601  | .9611  | .9621  | .9631  | .9641  | .9651  |
| 50.....                     | .9565                                          | .9575  | .9585  | .9595  | .9605  | .9615  | .9625  | .9635  | .9645  | .9655  |
| 51.....                     | .9568                                          | .9578  | .9588  | .9598  | .9608  | .9618  | .9628  | .9638  | .9648  | .9658  |
| 52.....                     | .9572                                          | .9582  | .9592  | .9602  | .9612  | .9622  | .9632  | .9642  | .9652  | .9662  |
| 53.....                     | .9575                                          | .9585  | .9595  | .9605  | .9615  | .9625  | .9635  | .9645  | .9655  | .9665  |
| 54.....                     | .9579                                          | .9589  | .9599  | .9609  | .9619  | .9629  | .9639  | .9649  | .9659  | .9669  |
| 55.....                     | .9582                                          | .9592  | .9602  | .9612  | .9622  | .9632  | .9642  | .9652  | .9662  | .9672  |
| 56.....                     | .9586                                          | .9596  | .9606  | .9616  | .9626  | .9636  | .9646  | .9656  | .9666  | .9676  |
| 57.....                     | .9590                                          | .9600  | .9610  | .9620  | .9630  | .9640  | .9650  | .9660  | .9670  | .9680  |
| 58.....                     | .9593                                          | .9603  | .9613  | .9623  | .9633  | .9643  | .9653  | .9663  | .9673  | .9683  |
| 59.....                     | .9597                                          | .9607  | .9617  | .9627  | .9637  | .9647  | .9657  | .9667  | .9677  | .9687  |
| 60.....                     | .9600                                          | .9610  | .9620  | .9630  | .9640  | .9650  | .9660  | .9670  | .9680  | .9690  |
| 61.....                     | .9604                                          | .9614  | .9624  | .9634  | .9644  | .9654  | .9664  | .9674  | .9684  | .9694  |
| 62.....                     | .9607                                          | .9617  | .9627  | .9637  | .9647  | .9657  | .9667  | .9677  | .9687  | .9697  |
| 63.....                     | .9610                                          | .9620  | .9630  | .9640  | .9650  | .9660  | .9670  | .9680  | .9690  | .9700  |
| 64.....                     | .9614                                          | .9624  | .9634  | .9644  | .9654  | .9664  | .9674  | .9684  | .9694  | .9704  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in ° F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 0.960                                          | 0.961  | 0.962  | 0.963  | 0.964  | 0.965  | 0.966  | 0.967  | 0.968  | 0.969  |
|                              | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                      | 0.9618                                         | 0.9628 | 0.9638 | 0.9648 | 0.9658 | 0.9668 | 0.9678 | 0.9688 | 0.9698 | 0.9708 |
| 66.....                      | .9621                                          | .9631  | .9641  | .9651  | .9661  | .9671  | .9681  | .9691  | .9701  | .9711  |
| 67.....                      | .9625                                          | .9635  | .9645  | .9655  | .9665  | .9675  | .9685  | .9695  | .9705  | .9715  |
| 68.....                      | .9628                                          | .9638  | .9648  | .9658  | .9668  | .9678  | .9688  | .9698  | .9708  | .9718  |
| 69.....                      | .9631                                          | .9641  | .9651  | .9661  | .9671  | .9681  | .9691  | .9701  | .9711  | .9721  |
| 70.....                      | .9635                                          | .9645  | .9655  | .9665  | .9675  | .9685  | .9695  | .9705  | .9715  | .9725  |
| 71.....                      | .9638                                          | .9648  | .9658  | .9668  | .9678  | .9688  | .9698  | .9708  | .9718  | .9728  |
| 72.....                      | .9642                                          | .9652  | .9662  | .9672  | .9682  | .9692  | .9702  | .9712  | .9722  | .9732  |
| 73.....                      | .9645                                          | .9655  | .9665  | .9675  | .9685  | .9695  | .9705  | .9715  | .9725  | .9735  |
| 74.....                      | .9649                                          | .9659  | .9669  | .9679  | .9689  | .9699  | .9709  | .9719  | .9729  | .9739  |
| 75.....                      | .9653                                          | .9663  | .9673  | .9683  | .9693  | .9703  | .9713  | .9723  | .9733  | .9743  |
| 76.....                      | .9656                                          | .9666  | .9676  | .9686  | .9696  | .9706  | .9716  | .9726  | .9736  | .9746  |
| 77.....                      | .9660                                          | .9670  | .9680  | .9690  | .9700  | .9710  | .9720  | .9730  | .9740  | .9750  |
| 78.....                      | .9663                                          | .9673  | .9683  | .9693  | .9703  | .9713  | .9723  | .9733  | .9743  | .9753  |
| 79.....                      | .9666                                          | .9676  | .9686  | .9696  | .9706  | .9716  | .9726  | .9736  | .9746  | .9756  |
| 80.....                      | .9670                                          | .9680  | .9690  | .9700  | .9710  | .9720  | .9730  | .9740  | .9750  | .9760  |
| 81.....                      | .9674                                          | .9684  | .9694  | .9704  | .9714  | .9724  | .9734  | .9744  | .9754  | .9764  |
| 82.....                      | .9677                                          | .9687  | .9697  | .9707  | .9717  | .9727  | .9737  | .9747  | .9757  | .9767  |
| 83.....                      | .9681                                          | .9691  | .9701  | .9711  | .9721  | .9731  | .9741  | .9751  | .9761  | .9771  |
| 84.....                      | .9684                                          | .9694  | .9704  | .9714  | .9724  | .9734  | .9744  | .9754  | .9764  | .9774  |
| 85.....                      | .9687                                          | .9697  | .9707  | .9717  | .9727  | .9737  | .9747  | .9757  | .9767  | .9777  |
| 86.....                      | .9691                                          | .9701  | .9711  | .9721  | .9731  | .9741  | .9751  | .9761  | .9771  | .9781  |
| 87.....                      | .9694                                          | .9704  | .9714  | .9724  | .9734  | .9744  | .9754  | .9764  | .9774  | .9784  |
| 88.....                      | .9698                                          | .9708  | .9718  | .9728  | .9738  | .9748  | .9758  | .9768  | .9778  | .9788  |
| 89.....                      | .9701                                          | .9711  | .9721  | .9731  | .9741  | .9751  | .9761  | .9771  | .9781  | .9791  |
| 90.....                      | .9704                                          | .9714  | .9724  | .9734  | .9744  | .9754  | .9764  | .9774  | .9784  | .9794  |
| 91.....                      | .9708                                          | .9718  | .9728  | .9738  | .9748  | .9758  | .9768  | .9778  | .9788  | .9798  |
| 92.....                      | .9712                                          | .9722  | .9732  | .9742  | .9752  | .9762  | .9772  | .9782  | .9792  | .9802  |
| 93.....                      | .9715                                          | .9725  | .9735  | .9745  | .9755  | .9765  | .9775  | .9785  | .9795  | .9805  |
| 94.....                      | .9718                                          | .9728  | .9738  | .9748  | .9758  | .9768  | .9778  | .9788  | .9798  | .9808  |
| 95.....                      | .9722                                          | .9732  | .9742  | .9752  | .9762  | .9772  | .9782  | .9792  | .9802  | .9812  |
| 96.....                      | .9725                                          | .9735  | .9745  | .9755  | .9765  | .9775  | .9785  | .9795  | .9805  | .9815  |
| 97.....                      | .9729                                          | .9739  | .9749  | .9759  | .9769  | .9779  | .9789  | .9799  | .9809  | .9819  |
| 98.....                      | .9732                                          | .9742  | .9752  | .9762  | .9772  | .9782  | .9792  | .9802  | .9812  | .9822  |
| 99.....                      | .9736                                          | .9746  | .9756  | .9766  | .9776  | .9786  | .9796  | .9806  | .9816  | .9826  |
| 100.....                     | .9739                                          | .9749  | .9759  | .9769  | .9779  | .9789  | .9799  | .9809  | .9819  | .9829  |
| 101.....                     | .9743                                          | .9753  | .9763  | .9773  | .9783  | .9793  | .9803  | .9813  | .9823  | .9833  |
| 102.....                     | .9746                                          | .9756  | .9766  | .9776  | .9786  | .9796  | .9806  | .9816  | .9826  | .9836  |
| 103.....                     | .9749                                          | .9759  | .9769  | .9779  | .9789  | .9799  | .9809  | .9819  | .9829  | .9839  |
| 104.....                     | .9753                                          | .9763  | .9773  | .9783  | .9793  | .9803  | .9813  | .9823  | .9833  | .9843  |
| 105.....                     | .9756                                          | .9766  | .9776  | .9786  | .9796  | .9806  | .9816  | .9826  | .9836  | .9846  |
| 106.....                     | .9759                                          | .9769  | .9779  | .9789  | .9799  | .9809  | .9819  | .9829  | .9839  | .9849  |
| 107.....                     | .9763                                          | .9773  | .9783  | .9793  | .9803  | .9813  | .9823  | .9833  | .9843  | .9853  |
| 108.....                     | .9766                                          | .9776  | .9786  | .9796  | .9806  | .9816  | .9826  | .9836  | .9846  | .9856  |
| 109.....                     | .9770                                          | .9780  | .9790  | .9800  | .9810  | .9820  | .9830  | .9840  | .9850  | .9860  |
| 110.....                     | .9773                                          | .9783  | .9793  | .9803  | .9813  | .9823  | .9833  | .9843  | .9853  | .9863  |
| 111.....                     | .9776                                          | .9786  | .9796  | .9806  | .9816  | .9826  | .9836  | .9846  | .9856  | .9866  |
| 112.....                     | .9780                                          | .9790  | .9800  | .9810  | .9820  | .9830  | .9840  | .9850  | .9860  | .9870  |
| 113.....                     | .9784                                          | .9794  | .9804  | .9814  | .9824  | .9834  | .9844  | .9854  | .9864  | .9874  |
| 114.....                     | .9787                                          | .9797  | .9807  | .9817  | .9827  | .9837  | .9847  | .9857  | .9867  | .9877  |
| 115.....                     | .9790                                          | .9800  | .9810  | .9820  | .9830  | .9840  | .9850  | .9860  | .9870  | .9880  |
| 116.....                     | .9794                                          | .9804  | .9814  | .9824  | .9834  | .9844  | .9854  | .9864  | .9874  | .9884  |
| 117.....                     | .9797                                          | .9807  | .9817  | .9827  | .9837  | .9847  | .9857  | .9867  | .9877  | .9887  |
| 118.....                     | .9800                                          | .9810  | .9820  | .9830  | .9840  | .9850  | .9860  | .9870  | .9880  | .9890  |
| 119.....                     | .9804                                          | .9814  | .9824  | .9834  | .9844  | .9854  | .9864  | .9874  | .9884  | .9894  |
| 120.....                     | .9807                                          | .9817  | .9827  | .9837  | .9847  | .9857  | .9867  | .9877  | .9887  | .9897  |
| 121.....                     | .9811                                          | .9821  | .9831  | .9841  | .9851  | .9861  | .9871  | .9881  | .9891  | .9901  |
| 122.....                     | .9815                                          | .9825  | .9835  | .9845  | .9855  | .9865  | .9875  | .9885  | .9895  | .9905  |
| 123.....                     | .9818                                          | .9828  | .9838  | .9848  | .9858  | .9868  | .9878  | .9888  | .9898  | .9908  |
| 124.....                     | .9821                                          | .9831  | .9841  | .9851  | .9861  | .9871  | .9881  | .9891  | .9901  | .9911  |
| 125.....                     | .9825                                          | .9835  | .9845  | .9855  | .9865  | .9875  | .9885  | .9895  | .9905  | .9915  |
| 126.....                     | .9828                                          | .9838  | .9848  | .9858  | .9868  | .9878  | .9888  | .9898  | .9908  | .9918  |
| 127.....                     | .9831                                          | .9841  | .9851  | .9861  | .9871  | .9881  | .9891  | .9901  | .9911  | .9921  |
| 128.....                     | .9835                                          | .9845  | .9855  | .9865  | .9875  | .9885  | .9895  | .9905  | .9915  | .9925  |
| 129.....                     | .9838                                          | .9848  | .9858  | .9868  | .9878  | .9888  | .9898  | .9908  | .9918  | .9928  |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.960                                          | 0.961  | 0.962  | 0.963  | 0.964  | 0.965  | 0.966  | 0.967  | 0.968  | 0.969  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 130.....                    | 0.9841                                         | 0.9851 | 0.9861 | 0.9871 | 0.9881 | 0.9891 | 0.9901 | 0.9911 | 0.9921 | 0.9931 |
| 131.....                    | .9845                                          | .9855  | .9865  | .9875  | .9885  | .9894  | .9904  | .9914  | .9924  | .9934  |
| 132.....                    | .9848                                          | .9858  | .9868  | .9878  | .9888  | .9898  | .9908  | .9918  | .9928  | .9938  |
| 133.....                    | .9851                                          | .9861  | .9871  | .9881  | .9891  | .9901  | .9911  | .9921  | .9931  | .9941  |
| 134.....                    | .9855                                          | .9865  | .9875  | .9885  | .9895  | .9904  | .9914  | .9924  | .9934  | .9944  |
| 135.....                    | .9858                                          | .9868  | .9878  | .9888  | .9898  | .9908  | .9918  | .9928  | .9938  | .9948  |
| 136.....                    | .9861                                          | .9871  | .9881  | .9891  | .9901  | .9911  | .9921  | .9931  | .9941  | .9951  |
| 137.....                    | .9865                                          | .9875  | .9885  | .9895  | .9905  | .9915  | .9925  | .9935  | .9945  | .9955  |
| 138.....                    | .9868                                          | .9878  | .9888  | .9898  | .9908  | .9918  | .9928  | .9938  | .9948  | .9958  |
| 139.....                    | .9871                                          | .9881  | .9891  | .9901  | .9911  | .9921  | .9931  | .9941  | .9951  | .9961  |
| 140.....                    | .9875                                          | .9885  | .9895  | .9905  | .9915  | .9925  | .9935  | .9945  | .9955  | .9965  |
| 141.....                    | .9878                                          | .9888  | .9898  | .9908  | .9918  | .9928  | .9938  | .9948  | .9958  | .9968  |
| 142.....                    | .9881                                          | .9891  | .9901  | .9911  | .9921  | .9931  | .9941  | .9951  | .9961  | .9971  |
| 143.....                    | .9884                                          | .9894  | .9904  | .9914  | .9924  | .9934  | .9944  | .9954  | .9964  | .9974  |
| 144.....                    | .9888                                          | .9898  | .9908  | .9918  | .9928  | .9938  | .9948  | .9958  | .9968  | .9978  |
| 145.....                    | .9891                                          | .9901  | .9911  | .9921  | .9931  | .9941  | .9951  | .9961  | .9971  | .9981  |
| 146.....                    | .9895                                          | .9905  | .9915  | .9925  | .9935  | .9945  | .9955  | .9965  | .9975  | .9985  |
| 147.....                    | .9898                                          | .9908  | .9918  | .9928  | .9938  | .9948  | .9958  | .9968  | .9978  | .9988  |
| 148.....                    | .9901                                          | .9911  | .9921  | .9931  | .9941  | .9951  | .9961  | .9971  | .9981  | .9991  |
| 149.....                    | .9905                                          | .9915  | .9925  | .9935  | .9945  | .9954  | .9964  | .9974  | .9984  | .9994  |
| 150.....                    | .9908                                          | .9918  | .9928  | .9938  | .9948  | .9958  | .9968  | .9978  | .9988  | .9998  |
| 151.....                    | .9911                                          | .9921  | .9931  | .9941  | .9951  | .9961  | .9971  | .9981  | .9991  | 1.0001 |
| 152.....                    | .9914                                          | .9924  | .9934  | .9944  | .9954  | .9964  | .9974  | .9984  | .9994  | 1.0004 |
| 153.....                    | .9918                                          | .9928  | .9938  | .9948  | .9958  | .9968  | .9978  | .9988  | .9998  | 1.0008 |
| 154.....                    | .9921                                          | .9931  | .9941  | .9951  | .9961  | .9971  | .9981  | .9991  | 1.0001 | 1.0011 |
| 155.....                    | .9925                                          | .9935  | .9945  | .9955  | .9965  | .9975  | .9985  | .9995  | 1.0005 | 1.0015 |
| 156.....                    | .9928                                          | .9938  | .9948  | .9958  | .9968  | .9978  | .9988  | .9998  | 1.0008 | 1.0018 |
| 157.....                    | .9932                                          | .9942  | .9952  | .9962  | .9972  | .9982  | .9992  | 1.0002 | 1.0012 | 1.0022 |
| 158.....                    | .9936                                          | .9946  | .9956  | .9966  | .9976  | .9985  | .9995  | 1.0005 | 1.0015 | 1.0025 |
| 159.....                    | .9939                                          | .9949  | .9959  | .9969  | .9979  | .9988  | .9998  | 1.0008 | 1.0018 | 1.0028 |
| 160.....                    | .9942                                          | .9952  | .9962  | .9972  | .9982  | .9991  | 1.0001 | 1.0011 | 1.0021 | 1.0031 |
| 161.....                    | .9945                                          | .9955  | .9965  | .9975  | .9985  | .9994  | 1.0004 | 1.0014 | 1.0024 | 1.0034 |
| 162.....                    | .9948                                          | .9958  | .9968  | .9978  | .9988  | .9997  | 1.0007 | 1.0017 | 1.0027 | 1.0037 |
| 163.....                    | .9951                                          | .9961  | .9971  | .9981  | .9991  | 1.0000 | 1.0010 | 1.0020 | 1.0030 | 1.0040 |
| 164.....                    | .9954                                          | .9964  | .9974  | .9984  | .9994  | 1.0003 | 1.0013 | 1.0023 | 1.0033 | 1.0043 |
| 165.....                    | .9958                                          | .9968  | .9978  | .9988  | .9998  | 1.0007 | 1.0017 | 1.0027 | 1.0037 | 1.0047 |
| 166.....                    | .9961                                          | .9971  | .9981  | .9991  | 1.0001 | 1.0010 | 1.0020 | 1.0030 | 1.0040 | 1.0050 |
| 167.....                    | .9965                                          | .9975  | .9985  | .9995  | 1.0004 | 1.0014 | 1.0024 | 1.0034 | 1.0044 | 1.0054 |
| 168.....                    | .9968                                          | .9978  | .9988  | .9998  | 1.0008 | 1.0017 | 1.0027 | 1.0037 | 1.0047 | 1.0057 |
| 169.....                    | .9971                                          | .9981  | .9991  | 1.0001 | 1.0011 | 1.0020 | 1.0030 | 1.0040 | 1.0050 | 1.0060 |
| 170.....                    | .9974                                          | .9984  | .9994  | 1.0004 | 1.0014 | 1.0023 | 1.0033 | 1.0043 | 1.0053 | 1.0063 |
| 171.....                    | .9977                                          | .9987  | .9997  | 1.0007 | 1.0017 | 1.0026 | 1.0036 | 1.0046 | 1.0056 | 1.0066 |
| 172.....                    | .9980                                          | .9990  | 1.0000 | 1.0010 | 1.0020 | 1.0029 | 1.0039 | 1.0049 | 1.0059 | 1.0069 |
| 173.....                    | .9983                                          | .9993  | 1.0003 | 1.0013 | 1.0023 | 1.0032 | 1.0042 | 1.0052 | 1.0062 | 1.0072 |
| 174.....                    | .9986                                          | .9996  | 1.0006 | 1.0016 | 1.0026 | 1.0035 | 1.0045 | 1.0055 | 1.0065 | 1.0075 |
| 175.....                    | .9989                                          | .9999  | 1.0009 | 1.0019 | 1.0029 | 1.0038 | 1.0048 | 1.0058 | 1.0068 | 1.0078 |
| 176.....                    | .9992                                          | 1.0002 | 1.0012 | 1.0022 | 1.0032 | 1.0041 | 1.0051 | 1.0061 | 1.0071 | 1.0081 |
| 177.....                    | .9996                                          | 1.0006 | 1.0016 | 1.0026 | 1.0036 | 1.0045 | 1.0055 | 1.0065 | 1.0075 | 1.0085 |
| 178.....                    | .9999                                          | 1.0009 | 1.0019 | 1.0029 | 1.0039 | 1.0048 | 1.0058 | 1.0068 | 1.0078 | 1.0088 |
| 179.....                    | 1.0002                                         | 1.0012 | 1.0022 | 1.0032 | 1.0042 | 1.0051 | 1.0061 | 1.0071 | 1.0081 | 1.0091 |
| 180.....                    | 1.0005                                         | 1.0015 | 1.0025 | 1.0035 | 1.0045 | 1.0054 | 1.0064 | 1.0074 | 1.0084 | 1.0094 |
| 181.....                    | 1.0008                                         | 1.0018 | 1.0028 | 1.0038 | 1.0048 | 1.0057 | 1.0067 | 1.0077 | 1.0087 | 1.0097 |
| 182.....                    | 1.0011                                         | 1.0021 | 1.0031 | 1.0041 | 1.0051 | 1.0060 | 1.0070 | 1.0080 | 1.0090 | 1.0100 |
| 183.....                    | 1.0015                                         | 1.0025 | 1.0035 | 1.0045 | 1.0055 | 1.0064 | 1.0074 | 1.0084 | 1.0094 | 1.0104 |
| 184.....                    | 1.0018                                         | 1.0028 | 1.0038 | 1.0048 | 1.0058 | 1.0067 | 1.0077 | 1.0087 | 1.0097 | 1.0107 |
| 185.....                    | 1.0021                                         | 1.0031 | 1.0041 | 1.0051 | 1.0061 | 1.0070 | 1.0080 | 1.0090 | 1.0100 | 1.0110 |
| 186.....                    | 1.0024                                         | 1.0034 | 1.0044 | 1.0054 | 1.0064 | 1.0074 | 1.0084 | 1.0094 | 1.0104 | 1.0114 |
| 187.....                    | 1.0028                                         | 1.0038 | 1.0048 | 1.0058 | 1.0068 | 1.0077 | 1.0087 | 1.0097 | 1.0107 | 1.0117 |
| 188.....                    | 1.0031                                         | 1.0041 | 1.0051 | 1.0061 | 1.0071 | 1.0080 | 1.0090 | 1.0100 | 1.0110 | 1.0120 |
| 189.....                    | 1.0034                                         | 1.0044 | 1.0054 | 1.0064 | 1.0074 | 1.0083 | 1.0093 | 1.0103 | 1.0113 | 1.0123 |
| 190.....                    | 1.0037                                         | 1.0047 | 1.0057 | 1.0067 | 1.0077 | 1.0086 | 1.0096 | 1.0106 | 1.0116 | 1.0126 |
| 191.....                    | 1.0040                                         | 1.0050 | 1.0060 | 1.0070 | 1.0080 | 1.0089 | 1.0099 | 1.0109 | 1.0119 | 1.0129 |
| 192.....                    | 1.0043                                         | 1.0053 | 1.0063 | 1.0073 | 1.0083 | 1.0092 | 1.0102 | 1.0112 | 1.0122 | 1.0132 |
| 193.....                    | 1.0046                                         | 1.0056 | 1.0066 | 1.0076 | 1.0086 | 1.0095 | 1.0105 | 1.0115 | 1.0125 | 1.0135 |
| 194.....                    | 1.0050                                         | 1.0060 | 1.0070 | 1.0080 | 1.0090 | 1.0099 | 1.0109 | 1.0119 | 1.0129 | 1.0139 |
| 195.....                    | 1.0053                                         | 1.0063 | 1.0073 | 1.0083 | 1.0093 | 1.0102 | 1.0112 | 1.0122 | 1.0132 | 1.0142 |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in ° F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 0.970                                          | 0.971  | 0.972  | 0.973  | 0.974  | 0.975  | 0.976  | 0.977  | 0.978  | 0.979  |
|                              | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                       | 0.9486                                         | 0.9496 | 0.9506 | 0.9516 | 0.9526 | 0.9536 | 0.9546 | 0.9556 | 0.9566 | 0.9576 |
| 1.....                       | .9489                                          | .9499  | .9509  | .9519  | .9529  | .9539  | .9549  | .9559  | .9569  | .9579  |
| 2.....                       | .9492                                          | .9502  | .9512  | .9522  | .9532  | .9542  | .9552  | .9562  | .9572  | .9582  |
| 3.....                       | .9496                                          | .9506  | .9516  | .9526  | .9536  | .9546  | .9556  | .9566  | .9576  | .9586  |
| 4.....                       | .9500                                          | .9510  | .9520  | .9530  | .9540  | .9550  | .9560  | .9570  | .9580  | .9590  |
| 5.....                       | .9503                                          | .9513  | .9523  | .9533  | .9543  | .9553  | .9563  | .9573  | .9583  | .9593  |
| 6.....                       | .9507                                          | .9517  | .9527  | .9537  | .9547  | .9557  | .9567  | .9577  | .9587  | .9597  |
| 7.....                       | .9510                                          | .9520  | .9530  | .9540  | .9550  | .9560  | .9570  | .9580  | .9590  | .9600  |
| 8.....                       | .9513                                          | .9523  | .9533  | .9543  | .9553  | .9563  | .9573  | .9583  | .9593  | .9603  |
| 9.....                       | .9517                                          | .9527  | .9537  | .9547  | .9557  | .9567  | .9577  | .9587  | .9597  | .9607  |
| 10.....                      | .9521                                          | .9531  | .9541  | .9551  | .9561  | .9571  | .9581  | .9591  | .9601  | .9611  |
| 11.....                      | .9524                                          | .9534  | .9544  | .9554  | .9564  | .9574  | .9584  | .9594  | .9604  | .9614  |
| 12.....                      | .9528                                          | .9538  | .9548  | .9558  | .9568  | .9578  | .9588  | .9598  | .9608  | .9618  |
| 13.....                      | .9531                                          | .9541  | .9551  | .9561  | .9571  | .9582  | .9592  | .9602  | .9612  | .9622  |
| 14.....                      | .9535                                          | .9545  | .9555  | .9565  | .9575  | .9585  | .9595  | .9605  | .9615  | .9625  |
| 15.....                      | .9538                                          | .9548  | .9558  | .9568  | .9578  | .9589  | .9599  | .9609  | .9619  | .9629  |
| 16.....                      | .9542                                          | .9552  | .9562  | .9572  | .9582  | .9593  | .9603  | .9613  | .9623  | .9633  |
| 17.....                      | .9545                                          | .9555  | .9565  | .9575  | .9585  | .9596  | .9606  | .9616  | .9626  | .9636  |
| 18.....                      | .9549                                          | .9559  | .9569  | .9579  | .9589  | .9600  | .9610  | .9620  | .9630  | .9640  |
| 19.....                      | .9553                                          | .9563  | .9573  | .9583  | .9593  | .9604  | .9614  | .9624  | .9634  | .9644  |
| 20.....                      | .9556                                          | .9566  | .9576  | .9586  | .9596  | .9607  | .9617  | .9627  | .9637  | .9647  |
| 21.....                      | .9560                                          | .9570  | .9580  | .9590  | .9600  | .9611  | .9621  | .9631  | .9641  | .9651  |
| 22.....                      | .9564                                          | .9574  | .9584  | .9594  | .9604  | .9615  | .9625  | .9635  | .9645  | .9655  |
| 23.....                      | .9568                                          | .9578  | .9588  | .9598  | .9608  | .9618  | .9628  | .9638  | .9648  | .9658  |
| 24.....                      | .9571                                          | .9581  | .9591  | .9601  | .9611  | .9622  | .9632  | .9642  | .9652  | .9662  |
| 25.....                      | .9574                                          | .9584  | .9594  | .9604  | .9614  | .9625  | .9635  | .9645  | .9655  | .9665  |
| 26.....                      | .9578                                          | .9588  | .9598  | .9608  | .9618  | .9629  | .9639  | .9649  | .9659  | .9669  |
| 27.....                      | .9582                                          | .9592  | .9602  | .9612  | .9622  | .9633  | .9643  | .9653  | .9663  | .9673  |
| 28.....                      | .9586                                          | .9596  | .9606  | .9616  | .9626  | .9637  | .9647  | .9657  | .9667  | .9677  |
| 29.....                      | .9590.                                         | .9600  | .9610  | .9620  | .9630  | .9641  | .9651  | .9661  | .9671  | .9681  |
| 30.....                      | .9593.                                         | .9603  | .9613  | .9623  | .9633  | .9644  | .9654  | .9664  | .9674  | .9684  |
| 31.....                      | .9597                                          | .9607  | .9617  | .9627  | .9637  | .9647  | .9657  | .9667  | .9677  | .9687  |
| 32.....                      | .9601                                          | .9611  | .9621  | .9631  | .9641  | .9651  | .9661  | .9671  | .9681  | .9691  |
| 33.....                      | .9604                                          | .9614  | .9624  | .9634  | .9644  | .9655  | .9665  | .9675  | .9685  | .9695  |
| 34.....                      | .9607                                          | .9617  | .9627  | .9637  | .9647  | .9658  | .9668  | .9678  | .9688  | .9698  |
| 35.....                      | .9611                                          | .9621  | .9631  | .9641  | .9651  | .9662  | .9672  | .9682  | .9692  | .9702  |
| 36.....                      | .9614                                          | .9624  | .9634  | .9644  | .9654  | .9665  | .9675  | .9685  | .9695  | .9705  |
| 37.....                      | .9618                                          | .9628  | .9638  | .9648  | .9658  | .9669  | .9679  | .9689  | .9699  | .9709  |
| 38.....                      | .9622                                          | .9632  | .9642  | .9652  | .9662  | .9673  | .9683  | .9693  | .9703  | .9713  |
| 39.....                      | .9625                                          | .9635  | .9645  | .9655  | .9665  | .9676  | .9686  | .9696  | .9706  | .9716  |
| 40.....                      | .9629                                          | .9639  | .9649  | .9659  | .9669  | .9680  | .9690  | .9700  | .9710  | .9720  |
| 41.....                      | .9633                                          | .9643  | .9653  | .9663  | .9673  | .9683  | .9693  | .9703  | .9713  | .9723  |
| 42.....                      | .9636                                          | .9646  | .9656  | .9666  | .9676  | .9687  | .9697  | .9707  | .9717  | .9727  |
| 43.....                      | .9640                                          | .9650  | .9660  | .9670  | .9680  | .9691  | .9701  | .9711  | .9721  | .9731  |
| 44.....                      | .9643                                          | .9653  | .9663  | .9673  | .9683  | .9694  | .9704  | .9714  | .9724  | .9734  |
| 45.....                      | .9647                                          | .9657  | .9667  | .9677  | .9687  | .9698  | .9708  | .9718  | .9728  | .9738  |
| 46.....                      | .9650                                          | .9660  | .9670  | .9680  | .9690  | .9701  | .9711  | .9721  | .9731  | .9741  |
| 47.....                      | .9654                                          | .9664  | .9674  | .9684  | .9694  | .9704  | .9714  | .9724  | .9734  | .9744  |
| 48.....                      | .9657                                          | .9667  | .9677  | .9687  | .9697  | .9707  | .9717  | .9727  | .9737  | .9747  |
| 49.....                      | .9661                                          | .9671  | .9681  | .9691  | .9701  | .9711  | .9721  | .9731  | .9741  | .9751  |
| 50.....                      | .9665                                          | .9675  | .9685  | .9695  | .9705  | .9715  | .9725  | .9735  | .9745  | .9755  |
| 51.....                      | .9668                                          | .9678  | .9688  | .9698  | .9708  | .9718  | .9728  | .9738  | .9748  | .9758  |
| 52.....                      | .9672                                          | .9682  | .9692  | .9702  | .9712  | .9722  | .9732  | .9742  | .9752  | .9762  |
| 53.....                      | .9675                                          | .9685  | .9695  | .9705  | .9715  | .9725  | .9735  | .9745  | .9755  | .9765  |
| 54.....                      | .9679                                          | .9689  | .9699  | .9709  | .9719  | .9729  | .9739  | .9749  | .9759  | .9769  |
| 55.....                      | .9682                                          | .9692  | .9702  | .9712  | .9722  | .9732  | .9742  | .9752  | .9762  | .9772  |
| 56.....                      | .9686                                          | .9696  | .9706  | .9716  | .9726  | .9736  | .9746  | .9756  | .9766  | .9776  |
| 57.....                      | .9690                                          | .9700  | .9710  | .9720  | .9730  | .9740  | .9750  | .9760  | .9770  | .9780  |
| 58.....                      | .9693                                          | .9703  | .9713  | .9723  | .9733  | .9743  | .9753  | .9763  | .9773  | .9783  |
| 59.....                      | .9697                                          | .9707  | .9717  | .9727  | .9737  | .9747  | .9757  | .9767  | .9777  | .9787  |
| 60.....                      | .9700                                          | .9710  | .9720  | .9730  | .9740  | .9750  | .9760  | .9770  | .9780  | .9790  |
| 61.....                      | .9704                                          | .9714  | .9724  | .9734  | .9744  | .9754  | .9764  | .9774  | .9784  | .9794  |
| 62.....                      | .9707                                          | .9717  | .9727  | .9737  | .9747  | .9757  | .9767  | .9777  | .9787  | .9797  |
| 63.....                      | .9710                                          | .9720  | .9730  | .9740  | .9750  | .9760  | .9770  | .9780  | .9790  | .9800  |
| 64.....                      | .9714                                          | .9724  | .9734  | .9744  | .9754  | .9764  | .9774  | .9784  | .9794  | .9804  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.970                                          | 0.971  | 0.972  | 0.973  | 0.974  | 0.975  | 0.976  | 0.977  | 0.978  | 0.979  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                     | 0.9718                                         | 0.9728 | 0.9738 | 0.9748 | 0.9758 | 0.9768 | 0.9778 | 0.9788 | 0.9798 | 0.9808 |
| 66.....                     | .9721                                          | .9731  | .9741  | .9751  | .9761  | .9771  | .9781  | .9791  | .9801  | .9811  |
| 67.....                     | .9725                                          | .9735  | .9745  | .9755  | .9765  | .9775  | .9785  | .9795  | .9805  | .9815  |
| 68.....                     | .9728                                          | .9738  | .9748  | .9758  | .9768  | .9778  | .9788  | .9798  | .9808  | .9818  |
| 69.....                     | .9731                                          | .9741  | .9751  | .9761  | .9771  | .9781  | .9791  | .9801  | .9811  | .9821  |
| 70.....                     | .9735                                          | .9745  | .9755  | .9765  | .9775  | .9785  | .9795  | .9805  | .9815  | .9825  |
| 71.....                     | .9738                                          | .9748  | .9758  | .9768  | .9778  | .9788  | .9798  | .9808  | .9818  | .9828  |
| 72.....                     | .9742                                          | .9752  | .9762  | .9772  | .9782  | .9792  | .9802  | .9812  | .9822  | .9832  |
| 73.....                     | .9745                                          | .9755  | .9765  | .9775  | .9785  | .9795  | .9805  | .9815  | .9825  | .9835  |
| 74.....                     | .9749                                          | .9759  | .9769  | .9779  | .9789  | .9799  | .9809  | .9819  | .9829  | .9839  |
| 75.....                     | .9753                                          | .9763  | .9773  | .9783  | .9793  | .9803  | .9813  | .9823  | .9833  | .9843  |
| 76.....                     | .9756                                          | .9766  | .9776  | .9786  | .9796  | .9806  | .9816  | .9826  | .9836  | .9846  |
| 77.....                     | .9760                                          | .9770  | .9780  | .9790  | .9800  | .9810  | .9820  | .9830  | .9840  | .9850  |
| 78.....                     | .9763                                          | .9773  | .9783  | .9793  | .9803  | .9813  | .9823  | .9833  | .9843  | .9853  |
| 79.....                     | .9766                                          | .9776  | .9786  | .9796  | .9806  | .9816  | .9826  | .9836  | .9846  | .9856  |
| 80.....                     | .9770                                          | .9780  | .9790  | .9800  | .9810  | .9820  | .9830  | .9840  | .9850  | .9860  |
| 81.....                     | .9774                                          | .9784  | .9794  | .9804  | .9814  | .9824  | .9834  | .9844  | .9854  | .9864  |
| 82.....                     | .9777                                          | .9787  | .9797  | .9807  | .9817  | .9827  | .9837  | .9847  | .9857  | .9867  |
| 83.....                     | .9781                                          | .9791  | .9801  | .9811  | .9821  | .9831  | .9841  | .9851  | .9861  | .9871  |
| 84.....                     | .9784                                          | .9794  | .9804  | .9814  | .9824  | .9834  | .9844  | .9854  | .9864  | .9874  |
| 85.....                     | .9787                                          | .9797  | .9807  | .9817  | .9827  | .9837  | .9847  | .9857  | .9867  | .9877  |
| 86.....                     | .9791                                          | .9801  | .9811  | .9821  | .9831  | .9841  | .9851  | .9861  | .9871  | .9881  |
| 87.....                     | .9794                                          | .9804  | .9814  | .9824  | .9834  | .9844  | .9854  | .9864  | .9874  | .9884  |
| 88.....                     | .9798                                          | .9808  | .9818  | .9828  | .9838  | .9848  | .9858  | .9868  | .9878  | .9888  |
| 89.....                     | .9801                                          | .9811  | .9821  | .9831  | .9841  | .9851  | .9861  | .9871  | .9881  | .9891  |
| 90.....                     | .9804                                          | .9814  | .9824  | .9834  | .9844  | .9854  | .9864  | .9874  | .9884  | .9894  |
| 91.....                     | .9808                                          | .9818  | .9828  | .9838  | .9848  | .9858  | .9868  | .9878  | .9888  | .9898  |
| 92.....                     | .9812                                          | .9822  | .9832  | .9842  | .9852  | .9862  | .9872  | .9882  | .9892  | .9902  |
| 93.....                     | .9815                                          | .9825  | .9835  | .9845  | .9855  | .9865  | .9875  | .9885  | .9895  | .9905  |
| 94.....                     | .9818                                          | .9828  | .9838  | .9848  | .9858  | .9868  | .9878  | .9888  | .9898  | .9908  |
| 95.....                     | .9822                                          | .9832  | .9842  | .9852  | .9862  | .9872  | .9882  | .9892  | .9902  | .9912  |
| 96.....                     | .9825                                          | .9835  | .9845  | .9855  | .9865  | .9875  | .9885  | .9895  | .9905  | .9915  |
| 97.....                     | .9829                                          | .9839  | .9849  | .9859  | .9869  | .9879  | .9889  | .9899  | .9909  | .9919  |
| 98.....                     | .9832                                          | .9842  | .9852  | .9862  | .9872  | .9882  | .9892  | .9902  | .9912  | .9922  |
| 99.....                     | .9836                                          | .9846  | .9856  | .9866  | .9876  | .9886  | .9896  | .9906  | .9916  | .9926  |
| 100.....                    | .9839                                          | .9849  | .9859  | .9869  | .9879  | .9889  | .9899  | .9909  | .9919  | .9929  |
| 101.....                    | .9843                                          | .9853  | .9863  | .9873  | .9883  | .9893  | .9903  | .9913  | .9923  | .9933  |
| 102.....                    | .9846                                          | .9856  | .9866  | .9876  | .9886  | .9896  | .9906  | .9916  | .9926  | .9936  |
| 103.....                    | .9849                                          | .9859  | .9869  | .9879  | .9889  | .9899  | .9909  | .9919  | .9929  | .9939  |
| 104.....                    | .9853                                          | .9863  | .9873  | .9883  | .9893  | .9903  | .9913  | .9923  | .9933  | .9943  |
| 105.....                    | .9856                                          | .9866  | .9876  | .9886  | .9896  | .9906  | .9916  | .9926  | .9936  | .9946  |
| 106.....                    | .9859                                          | .9869  | .9879  | .9889  | .9899  | .9909  | .9919  | .9929  | .9939  | .9949  |
| 107.....                    | .9863                                          | .9873  | .9883  | .9893  | .9903  | .9913  | .9923  | .9933  | .9943  | .9953  |
| 108.....                    | .9866                                          | .9876  | .9886  | .9896  | .9906  | .9916  | .9926  | .9936  | .9946  | .9956  |
| 109.....                    | .9870                                          | .9880  | .9890  | .9900  | .9910  | .9920  | .9930  | .9940  | .9950  | .9960  |
| 110.....                    | .9873                                          | .9883  | .9893  | .9903  | .9913  | .9923  | .9933  | .9943  | .9953  | .9963  |
| 111.....                    | .9876                                          | .9886  | .9896  | .9906  | .9916  | .9926  | .9936  | .9946  | .9956  | .9966  |
| 112.....                    | .9880                                          | .9890  | .9900  | .9910  | .9920  | .9930  | .9940  | .9950  | .9960  | .9970  |
| 113.....                    | .9884                                          | .9894  | .9904  | .9914  | .9924  | .9934  | .9944  | .9954  | .9964  | .9974  |
| 114.....                    | .9887                                          | .9897  | .9907  | .9917  | .9927  | .9937  | .9947  | .9957  | .9967  | .9977  |
| 115.....                    | .9890                                          | .9900  | .9910  | .9920  | .9930  | .9940  | .9950  | .9960  | .9970  | .9980  |
| 116.....                    | .9894                                          | .9904  | .9914  | .9924  | .9934  | .9944  | .9954  | .9964  | .9974  | .9984  |
| 117.....                    | .9897                                          | .9907  | .9917  | .9927  | .9937  | .9947  | .9957  | .9967  | .9977  | .9987  |
| 118.....                    | .9900                                          | .9910  | .9920  | .9930  | .9940  | .9950  | .9960  | .9970  | .9980  | .9990  |
| 119.....                    | .9904                                          | .9914  | .9924  | .9934  | .9944  | .9954  | .9964  | .9974  | .9984  | .9994  |
| 120.....                    | .9907                                          | .9917  | .9927  | .9937  | .9947  | .9957  | .9967  | .9977  | .9987  | .9997  |
| 121.....                    | .9911                                          | .9921  | .9931  | .9941  | .9951  | .9961  | .9971  | .9981  | .9991  | 1.0001 |
| 122.....                    | .9914                                          | .9924  | .9934  | .9944  | .9954  | .9964  | .9974  | .9984  | .9994  | 1.0004 |
| 123.....                    | .9918                                          | .9928  | .9938  | .9948  | .9958  | .9967  | .9977  | .9987  | .9997  | 1.0007 |
| 124.....                    | .9921                                          | .9931  | .9941  | .9951  | .9961  | .9970  | .9980  | .9990  | 1.0000 | 1.0010 |
| 125.....                    | .9924                                          | .9934  | .9944  | .9954  | .9964  | .9974  | .9984  | .9994  | 1.0004 | 1.0014 |
| 126.....                    | .9927                                          | .9937  | .9947  | .9957  | .9967  | .9977  | .9987  | .9997  | 1.0007 | 1.0017 |
| 127.....                    | .9931                                          | .9941  | .9951  | .9961  | .9971  | .9980  | .9990  | 1.0000 | 1.0010 | 1.0020 |
| 128.....                    | .9934                                          | .9944  | .9954  | .9964  | .9974  | .9984  | .9994  | 1.0004 | 1.0014 | 1.0024 |
| 129.....                    | .9937                                          | .9947  | .9957  | .9967  | .9977  | .9987  | .9997  | 1.0007 | 1.0017 | 1.0027 |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in ° F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 0.970                                          | 0.971  | 0.972  | 0.973  | 0.974  | 0.975  | 0.976  | 0.977  | 0.978  | 0.979  |
|                              | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 130.....                     | 0.9941                                         | 0.9951 | 0.9961 | 0.9971 | 0.9981 | 0.9991 | 1.0001 | 1.0011 | 1.0021 | 1.0031 |
| 131.....                     | .9944                                          | .9954  | .9964  | .9974  | .9984  | .9994  | 1.0004 | 1.0014 | 1.0024 | 1.0034 |
| 132.....                     | .9948                                          | .9958  | .9968  | .9978  | .9988  | .9998  | 1.0008 | 1.0018 | 1.0028 | 1.0038 |
| 133.....                     | .9951                                          | .9961  | .9971  | .9981  | .9991  | 1.0001 | 1.0011 | 1.0021 | 1.0031 | 1.0041 |
| 134.....                     | .9954                                          | .9964  | .9974  | .9984  | .9994  | 1.0004 | 1.0014 | 1.0024 | 1.0034 | 1.0044 |
| 135.....                     | .9958                                          | .9968  | .9978  | .9988  | .9998  | 1.0007 | 1.0017 | 1.0027 | 1.0037 | 1.0047 |
| 136.....                     | .9961                                          | .9971  | .9981  | .9991  | 1.0001 | 1.0010 | 1.0020 | 1.0030 | 1.0040 | 1.0050 |
| 137.....                     | .9965                                          | .9975  | .9985  | .9995  | 1.0005 | 1.0014 | 1.0024 | 1.0034 | 1.0044 | 1.0054 |
| 138.....                     | .9968                                          | .9978  | .9988  | .9998  | 1.0008 | 1.0018 | 1.0028 | 1.0038 | 1.0048 | 1.0058 |
| 139.....                     | .9971                                          | .9981  | .9991  | 1.0001 | 1.0011 | 1.0021 | 1.0031 | 1.0041 | 1.0051 | 1.0061 |
| 140.....                     | .9975                                          | .9985  | .9995  | 1.0005 | 1.0015 | 1.0024 | 1.0034 | 1.0044 | 1.0054 | 1.0064 |
| 141.....                     | .9978                                          | .9988  | .9998  | 1.0008 | 1.0018 | 1.0027 | 1.0037 | 1.0047 | 1.0057 | 1.0067 |
| 142.....                     | .9981                                          | .9991  | 1.0001 | 1.0011 | 1.0021 | 1.0030 | 1.0040 | 1.0050 | 1.0060 | 1.0070 |
| 143.....                     | .9984                                          | .9994  | 1.0004 | 1.0014 | 1.0024 | 1.0034 | 1.0044 | 1.0054 | 1.0064 | 1.0074 |
| 144.....                     | .9988                                          | .9998  | 1.0008 | 1.0018 | 1.0028 | 1.0037 | 1.0047 | 1.0057 | 1.0067 | 1.0077 |
| 145.....                     | .9991                                          | 1.0001 | 1.0011 | 1.0021 | 1.0031 | 1.0040 | 1.0050 | 1.0060 | 1.0070 | 1.0080 |
| 146.....                     | .9995                                          | 1.0005 | 1.0015 | 1.0025 | 1.0035 | 1.0044 | 1.0054 | 1.0064 | 1.0074 | 1.0084 |
| 147.....                     | .9998                                          | 1.0008 | 1.0018 | 1.0028 | 1.0038 | 1.0047 | 1.0057 | 1.0067 | 1.0077 | 1.0087 |
| 148.....                     | 1.0001                                         | 1.0011 | 1.0021 | 1.0031 | 1.0041 | 1.0051 | 1.0061 | 1.0071 | 1.0081 | 1.0091 |
| 149.....                     | 1.0004                                         | 1.0014 | 1.0024 | 1.0034 | 1.0044 | 1.0054 | 1.0064 | 1.0074 | 1.0084 | 1.0094 |
| 150.....                     | 1.0008                                         | 1.0018 | 1.0028 | 1.0038 | 1.0048 | 1.0058 | 1.0068 | 1.0078 | 1.0088 | 1.0098 |
| 151.....                     | 1.0011                                         | 1.0021 | 1.0031 | 1.0041 | 1.0051 | 1.0061 | 1.0071 | 1.0081 | 1.0091 | 1.0101 |
| 152.....                     | 1.0014                                         | 1.0024 | 1.0034 | 1.0044 | 1.0054 | 1.0064 | 1.0074 | 1.0084 | 1.0094 | 1.0104 |
| 153.....                     | 1.0018                                         | 1.0028 | 1.0038 | 1.0048 | 1.0058 | 1.0067 | 1.0077 | 1.0087 | 1.0097 | 1.0107 |
| 154.....                     | 1.0021                                         | 1.0031 | 1.0041 | 1.0051 | 1.0061 | 1.0070 | 1.0080 | 1.0090 | 1.0100 | 1.0110 |
| 155.....                     | 1.0025                                         | 1.0035 | 1.0045 | 1.0055 | 1.0065 | 1.0074 | 1.0084 | 1.0094 | 1.0104 | 1.0114 |
| 156.....                     | 1.0028                                         | 1.0038 | 1.0048 | 1.0058 | 1.0068 | 1.0077 | 1.0087 | 1.0097 | 1.0107 | 1.0117 |
| 157.....                     | 1.0032                                         | 1.0042 | 1.0052 | 1.0062 | 1.0072 | 1.0081 | 1.0091 | 1.0101 | 1.0111 | 1.0121 |
| 158.....                     | 1.0035                                         | 1.0045 | 1.0055 | 1.0065 | 1.0075 | 1.0084 | 1.0094 | 1.0104 | 1.0114 | 1.0124 |
| 159.....                     | 1.0038                                         | 1.0048 | 1.0058 | 1.0068 | 1.0078 | 1.0087 | 1.0097 | 1.0107 | 1.0117 | 1.0127 |
| 160.....                     | 1.0041                                         | 1.0051 | 1.0061 | 1.0071 | 1.0081 | 1.0090 | 1.0100 | 1.0110 | 1.0120 | 1.0130 |
| 161.....                     | 1.0044                                         | 1.0054 | 1.0064 | 1.0074 | 1.0084 | 1.0093 | 1.0103 | 1.0113 | 1.0123 | 1.0133 |
| 162.....                     | 1.0047                                         | 1.0057 | 1.0067 | 1.0077 | 1.0087 | 1.0096 | 1.0106 | 1.0116 | 1.0126 | 1.0136 |
| 163.....                     | 1.0050                                         | 1.0060 | 1.0070 | 1.0080 | 1.0090 | 1.0099 | 1.0109 | 1.0119 | 1.0129 | 1.0139 |
| 164.....                     | 1.0053                                         | 1.0063 | 1.0073 | 1.0083 | 1.0093 | 1.0102 | 1.0112 | 1.0122 | 1.0132 | 1.0142 |
| 165.....                     | 1.0057                                         | 1.0067 | 1.0077 | 1.0087 | 1.0097 | 1.0106 | 1.0116 | 1.0126 | 1.0136 | 1.0146 |
| 166.....                     | 1.0060                                         | 1.0070 | 1.0080 | 1.0090 | 1.0100 | 1.0109 | 1.0119 | 1.0129 | 1.0139 | 1.0149 |
| 167.....                     | 1.0064                                         | 1.0074 | 1.0084 | 1.0094 | 1.0104 | 1.0113 | 1.0123 | 1.0133 | 1.0143 | 1.0153 |
| 168.....                     | 1.0067                                         | 1.0077 | 1.0087 | 1.0097 | 1.0107 | 1.0116 | 1.0126 | 1.0136 | 1.0146 | 1.0156 |
| 169.....                     | 1.0070                                         | 1.0080 | 1.0090 | 1.0100 | 1.0110 | 1.0119 | 1.0129 | 1.0139 | 1.0149 | 1.0159 |
| 170.....                     | 1.0073                                         | 1.0083 | 1.0093 | 1.0103 | 1.0113 | 1.0122 | 1.0132 | 1.0142 | 1.0152 | 1.0162 |
| 171.....                     | 1.0076                                         | 1.0086 | 1.0096 | 1.0106 | 1.0116 | 1.0125 | 1.0135 | 1.0145 | 1.0155 | 1.0165 |
| 172.....                     | 1.0079                                         | 1.0089 | 1.0099 | 1.0109 | 1.0119 | 1.0128 | 1.0138 | 1.0148 | 1.0158 | 1.0168 |
| 173.....                     | 1.0082                                         | 1.0092 | 1.0102 | 1.0112 | 1.0122 | 1.0131 | 1.0141 | 1.0151 | 1.0161 | 1.0171 |
| 174.....                     | 1.0085                                         | 1.0095 | 1.0105 | 1.0115 | 1.0125 | 1.0134 | 1.0144 | 1.0154 | 1.0164 | 1.0174 |
| 175.....                     | 1.0088                                         | 1.0098 | 1.0108 | 1.0118 | 1.0128 | 1.0137 | 1.0147 | 1.0157 | 1.0167 | 1.0177 |
| 176.....                     | 1.0091                                         | 1.0101 | 1.0111 | 1.0121 | 1.0131 | 1.0140 | 1.0150 | 1.0160 | 1.0170 | 1.0180 |
| 177.....                     | 1.0095                                         | 1.0105 | 1.0115 | 1.0125 | 1.0135 | 1.0144 | 1.0154 | 1.0164 | 1.0174 | 1.0184 |
| 178.....                     | 1.0098                                         | 1.0108 | 1.0118 | 1.0128 | 1.0138 | 1.0147 | 1.0157 | 1.0167 | 1.0177 | 1.0187 |
| 179.....                     | 1.0101                                         | 1.0111 | 1.0121 | 1.0131 | 1.0141 | 1.0150 | 1.0160 | 1.0170 | 1.0180 | 1.0190 |
| 180.....                     | 1.0104                                         | 1.0114 | 1.0124 | 1.0134 | 1.0144 | 1.0153 | 1.0163 | 1.0173 | 1.0183 | 1.0193 |
| 181.....                     | 1.0107                                         | 1.0117 | 1.0127 | 1.0137 | 1.0147 | 1.0156 | 1.0166 | 1.0176 | 1.0186 | 1.0196 |
| 182.....                     | 1.0110                                         | 1.0120 | 1.0130 | 1.0140 | 1.0150 | 1.0159 | 1.0169 | 1.0179 | 1.0189 | 1.0199 |
| 183.....                     | 1.0114                                         | 1.0124 | 1.0134 | 1.0144 | 1.0154 | 1.0163 | 1.0173 | 1.0183 | 1.0193 | 1.0203 |
| 184.....                     | 1.0117                                         | 1.0127 | 1.0137 | 1.0147 | 1.0157 | 1.0166 | 1.0176 | 1.0186 | 1.0196 | 1.0206 |
| 185.....                     | 1.0120                                         | 1.0130 | 1.0140 | 1.0150 | 1.0160 | 1.0170 | 1.0180 | 1.0190 | 1.0200 | 1.0210 |
| 186.....                     | 1.0124                                         | 1.0134 | 1.0144 | 1.0154 | 1.0164 | 1.0173 | 1.0183 | 1.0193 | 1.0203 | 1.0213 |
| 187.....                     | 1.0127                                         | 1.0137 | 1.0147 | 1.0157 | 1.0167 | 1.0176 | 1.0186 | 1.0196 | 1.0206 | 1.0216 |
| 188.....                     | 1.0130                                         | 1.0140 | 1.0150 | 1.0160 | 1.0170 | 1.0179 | 1.0189 | 1.0199 | 1.0209 | 1.0219 |
| 189.....                     | 1.0133                                         | 1.0143 | 1.0153 | 1.0163 | 1.0173 | 1.0182 | 1.0192 | 1.0202 | 1.0212 | 1.0222 |
| 190.....                     | 1.0136                                         | 1.0146 | 1.0156 | 1.0166 | 1.0176 | 1.0185 | 1.0195 | 1.0205 | 1.0215 | 1.0225 |
| 191.....                     | 1.0139                                         | 1.0149 | 1.0159 | 1.0169 | 1.0179 | 1.0188 | 1.0198 | 1.0208 | 1.0218 | 1.0228 |
| 192.....                     | 1.0142                                         | 1.0152 | 1.0162 | 1.0172 | 1.0182 | 1.0191 | 1.0201 | 1.0211 | 1.0221 | 1.0231 |
| 193.....                     | 1.0145                                         | 1.0155 | 1.0165 | 1.0175 | 1.0185 | 1.0194 | 1.0204 | 1.0214 | 1.0224 | 1.0234 |
| 194.....                     | 1.0149                                         | 1.0159 | 1.0169 | 1.0179 | 1.0189 | 1.0198 | 1.0208 | 1.0218 | 1.0228 | 1.0238 |
| 195.....                     | 1.0152                                         | 1.0162 | 1.0172 | 1.0182 | 1.0192 | 1.0201 | 1.0211 | 1.0221 | 1.0231 | 1.0241 |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.980                                          | 0.981  | 0.982  | 0.983  | 0.984  | 0.985  | 0.986  | 0.987  | 0.988  | 0.989  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.9586                                         | 0.9596 | 0.9606 | 0.9616 | 0.9626 | 0.9636 | 0.9645 | 0.9656 | 0.9666 | 0.9676 |
| 1.....                      | .9589                                          | .9599  | .9609  | .9619  | .9629  | .9639  | .9649  | .9659  | .9669  | .9679  |
| 2.....                      | .9592                                          | .9602  | .9612  | .9622  | .9632  | .9642  | .9652  | .9662  | .9672  | .9682  |
| 3.....                      | .9596                                          | .9606  | .9616  | .9626  | .9636  | .9646  | .9656  | .9666  | .9676  | .9686  |
| 4.....                      | .9600                                          | .9610  | .9620  | .9630  | .9640  | .9650  | .9660  | .9670  | .9680  | .9690  |
| 5.....                      | .9603                                          | .9613  | .9623  | .9633  | .9643  | .9653  | .9663  | .9673  | .9683  | .9693  |
| 6.....                      | .9607                                          | .9617  | .9627  | .9637  | .9647  | .9657  | .9667  | .9677  | .9687  | .9697  |
| 7.....                      | .9610                                          | .9620  | .9630  | .9640  | .9650  | .9660  | .9670  | .9680  | .9690  | .9700  |
| 8.....                      | .9613                                          | .9623  | .9633  | .9643  | .9653  | .9663  | .9673  | .9683  | .9693  | .9703  |
| 9.....                      | .9617                                          | .9627  | .9637  | .9647  | .9657  | .9667  | .9677  | .9687  | .9697  | .9707  |
| 10.....                     | .9621                                          | .9631  | .9641  | .9651  | .9661  | .9671  | .9681  | .9691  | .9701  | .9711  |
| 11.....                     | .9624                                          | .9634  | .9644  | .9654  | .9664  | .9675  | .9685  | .9695  | .9705  | .9715  |
| 12.....                     | .9628                                          | .9638  | .9648  | .9658  | .9668  | .9678  | .9688  | .9698  | .9708  | .9718  |
| 13.....                     | .9632                                          | .9642  | .9652  | .9662  | .9672  | .9682  | .9692  | .9702  | .9712  | .9722  |
| 14.....                     | .9635                                          | .9645  | .9655  | .9665  | .9675  | .9685  | .9695  | .9705  | .9715  | .9725  |
| 15.....                     | .9639                                          | .9649  | .9659  | .9669  | .9679  | .9689  | .9699  | .9709  | .9719  | .9729  |
| 16.....                     | .9643                                          | .9653  | .9663  | .9673  | .9683  | .9693  | .9703  | .9713  | .9723  | .9733  |
| 17.....                     | .9646                                          | .9656  | .9666  | .9676  | .9686  | .9696  | .9706  | .9716  | .9726  | .9736  |
| 18.....                     | .9650                                          | .9660  | .9670  | .9680  | .9690  | .9700  | .9710  | .9720  | .9730  | .9740  |
| 19.....                     | .9654                                          | .9664  | .9674  | .9684  | .9694  | .9704  | .9714  | .9724  | .9734  | .9744  |
| 20.....                     | .9657                                          | .9667  | .9677  | .9687  | .9697  | .9707  | .9717  | .9727  | .9737  | .9747  |
| 21.....                     | .9661                                          | .9671  | .9681  | .9691  | .9701  | .9711  | .9721  | .9731  | .9741  | .9751  |
| 22.....                     | .9665                                          | .9675  | .9685  | .9695  | .9705  | .9715  | .9725  | .9735  | .9745  | .9755  |
| 23.....                     | .9668                                          | .9678  | .9688  | .9698  | .9708  | .9718  | .9728  | .9738  | .9748  | .9758  |
| 24.....                     | .9672                                          | .9682  | .9692  | .9702  | .9712  | .9722  | .9732  | .9742  | .9752  | .9762  |
| 25.....                     | .9675                                          | .9685  | .9695  | .9705  | .9715  | .9725  | .9735  | .9745  | .9755  | .9765  |
| 26.....                     | .9679                                          | .9689  | .9699  | .9709  | .9719  | .9729  | .9739  | .9749  | .9759  | .9769  |
| 27.....                     | .9683                                          | .9693  | .9703  | .9713  | .9723  | .9733  | .9743  | .9753  | .9763  | .9773  |
| 28.....                     | .9687                                          | .9697  | .9707  | .9717  | .9727  | .9737  | .9747  | .9757  | .9767  | .9777  |
| 29.....                     | .9691                                          | .9701  | .9711  | .9721  | .9731  | .9741  | .9751  | .9761  | .9771  | .9781  |
| 30.....                     | .9694                                          | .9704  | .9714  | .9724  | .9734  | .9744  | .9754  | .9764  | .9774  | .9784  |
| 31.....                     | .9697                                          | .9707  | .9717  | .9727  | .9737  | .9748  | .9758  | .9768  | .9778  | .9788  |
| 32.....                     | .9701                                          | .9711  | .9721  | .9731  | .9741  | .9751  | .9761  | .9771  | .9781  | .9791  |
| 33.....                     | .9705                                          | .9715  | .9725  | .9735  | .9745  | .9755  | .9765  | .9775  | .9785  | .9795  |
| 34.....                     | .9708                                          | .9718  | .9728  | .9738  | .9748  | .9758  | .9768  | .9778  | .9788  | .9798  |
| 35.....                     | .9712                                          | .9722  | .9732  | .9742  | .9752  | .9762  | .9772  | .9782  | .9792  | .9802  |
| 36.....                     | .9715                                          | .9725  | .9735  | .9745  | .9755  | .9766  | .9776  | .9786  | .9796  | .9806  |
| 37.....                     | .9719                                          | .9729  | .9739  | .9749  | .9759  | .9769  | .9779  | .9789  | .9799  | .9809  |
| 38.....                     | .9723                                          | .9733  | .9743  | .9753  | .9763  | .9773  | .9783  | .9793  | .9803  | .9813  |
| 39.....                     | .9726                                          | .9736  | .9746  | .9756  | .9766  | .9776  | .9786  | .9796  | .9806  | .9816  |
| 40.....                     | .9730                                          | .9740  | .9750  | .9760  | .9770  | .9780  | .9790  | .9800  | .9810  | .9820  |
| 41.....                     | .9733                                          | .9743  | .9753  | .9763  | .9773  | .9783  | .9793  | .9803  | .9813  | .9823  |
| 42.....                     | .9737                                          | .9747  | .9757  | .9767  | .9777  | .9787  | .9797  | .9807  | .9817  | .9827  |
| 43.....                     | .9741                                          | .9751  | .9761  | .9771  | .9781  | .9791  | .9801  | .9811  | .9821  | .9831  |
| 44.....                     | .9744                                          | .9754  | .9764  | .9774  | .9784  | .9794  | .9804  | .9814  | .9824  | .9834  |
| 45.....                     | .9748                                          | .9758  | .9768  | .9778  | .9788  | .9798  | .9808  | .9818  | .9828  | .9838  |
| 46.....                     | .9751                                          | .9761  | .9771  | .9781  | .9791  | .9801  | .9811  | .9821  | .9831  | .9841  |
| 47.....                     | .9754                                          | .9764  | .9774  | .9784  | .9794  | .9804  | .9814  | .9824  | .9834  | .9844  |
| 48.....                     | .9757                                          | .9767  | .9777  | .9787  | .9797  | .9807  | .9817  | .9827  | .9837  | .9847  |
| 49.....                     | .9761                                          | .9771  | .9781  | .9791  | .9801  | .9811  | .9821  | .9831  | .9841  | .9851  |
| 50.....                     | .9765                                          | .9775  | .9785  | .9795  | .9805  | .9815  | .9825  | .9835  | .9845  | .9855  |
| 51.....                     | .9768                                          | .9778  | .9788  | .9798  | .9808  | .9818  | .9828  | .9838  | .9848  | .9858  |
| 52.....                     | .9772                                          | .9782  | .9792  | .9802  | .9812  | .9822  | .9832  | .9842  | .9852  | .9862  |
| 53.....                     | .9775                                          | .9785  | .9795  | .9805  | .9815  | .9825  | .9835  | .9845  | .9855  | .9865  |
| 54.....                     | .9779                                          | .9789  | .9799  | .9809  | .9819  | .9829  | .9839  | .9849  | .9859  | .9869  |
| 55.....                     | .9782                                          | .9792  | .9802  | .9812  | .9822  | .9832  | .9842  | .9852  | .9862  | .9872  |
| 56.....                     | .9786                                          | .9796  | .9806  | .9816  | .9826  | .9836  | .9846  | .9856  | .9866  | .9876  |
| 57.....                     | .9790                                          | .9800  | .9810  | .9820  | .9830  | .9840  | .9850  | .9860  | .9870  | .9880  |
| 58.....                     | .9793                                          | .9803  | .9813  | .9823  | .9833  | .9843  | .9853  | .9863  | .9873  | .9883  |
| 59.....                     | .9797                                          | .9807  | .9817  | .9827  | .9837  | .9847  | .9857  | .9867  | .9877  | .9887  |
| 60.....                     | .9800                                          | .9810  | .9820  | .9830  | .9840  | .9850  | .9860  | .9870  | .9880  | .9890  |
| 61.....                     | .9804                                          | .9814  | .9824  | .9834  | .9844  | .9854  | .9864  | .9874  | .9884  | .9894  |
| 62.....                     | .9807                                          | .9817  | .9827  | .9837  | .9847  | .9857  | .9867  | .9877  | .9887  | .9897  |
| 63.....                     | .9810                                          | .9820  | .9830  | .9840  | .9850  | .9860  | .9870  | .9880  | .9890  | .9900  |
| 64.....                     | .9814                                          | .9824  | .9834  | .9844  | .9854  | .9864  | .9874  | .9884  | .9894  | .9904  |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in ° F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 0.980                                          | 0.981  | 0.982  | 0.983  | 0.984  | 0.985  | 0.986  | 0.987  | 0.988  | 0.989  |
|                              | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                      | 0.9818                                         | 0.9828 | 0.9838 | 0.9848 | 0.9858 | 0.9868 | 0.9878 | 0.9888 | 0.9898 | 0.9908 |
| 66.....                      | .9821                                          | .9831  | .9841  | .9851  | .9861  | .9871  | .9881  | .9891  | .9901  | .9911  |
| 67.....                      | .9825                                          | .9835  | .9845  | .9855  | .9865  | .9875  | .9885  | .9895  | .9905  | .9915  |
| 68.....                      | .9828                                          | .9838  | .9848  | .9858  | .9868  | .9878  | .9888  | .9898  | .9908  | .9918  |
| 69.....                      | .9831                                          | .9841  | .9851  | .9861  | .9871  | .9881  | .9891  | .9901  | .9911  | .9921  |
| 70.....                      | .9835                                          | .9845  | .9855  | .9865  | .9875  | .9885  | .9895  | .9905  | .9915  | .9925  |
| 71.....                      | .9838                                          | .9848  | .9858  | .9868  | .9878  | .9888  | .9898  | .9908  | .9918  | .9928  |
| 72.....                      | .9842                                          | .9852  | .9862  | .9872  | .9882  | .9892  | .9902  | .9912  | .9922  | .9932  |
| 73.....                      | .9845                                          | .9855  | .9865  | .9875  | .9885  | .9895  | .9905  | .9915  | .9925  | .9935  |
| 74.....                      | .9849                                          | .9859  | .9869  | .9879  | .9889  | .9899  | .9909  | .9919  | .9929  | .9939  |
| 75.....                      | .9853                                          | .9863  | .9873  | .9883  | .9893  | .9903  | .9913  | .9923  | .9933  | .9943  |
| 76.....                      | .9856                                          | .9866  | .9876  | .9886  | .9896  | .9906  | .9916  | .9926  | .9936  | .9946  |
| 77.....                      | .9860                                          | .9870  | .9880  | .9890  | .9900  | .9910  | .9920  | .9930  | .9940  | .9950  |
| 78.....                      | .9863                                          | .9873  | .9883  | .9893  | .9903  | .9913  | .9923  | .9933  | .9943  | .9953  |
| 79.....                      | .9866                                          | .9876  | .9886  | .9896  | .9906  | .9916  | .9926  | .9936  | .9946  | .9956  |
| 80.....                      | .9870                                          | .9880  | .9890  | .9900  | .9910  | .9920  | .9930  | .9940  | .9950  | .9960  |
| 81.....                      | .9874                                          | .9884  | .9894  | .9904  | .9914  | .9924  | .9934  | .9944  | .9954  | .9964  |
| 82.....                      | .9877                                          | .9887  | .9897  | .9907  | .9917  | .9927  | .9937  | .9947  | .9957  | .9967  |
| 83.....                      | .9881                                          | .9891  | .9901  | .9911  | .9921  | .9931  | .9941  | .9951  | .9961  | .9971  |
| 84.....                      | .9884                                          | .9894  | .9904  | .9914  | .9924  | .9934  | .9944  | .9954  | .9964  | .9974  |
| 85.....                      | .9887                                          | .9897  | .9907  | .9917  | .9927  | .9937  | .9947  | .9957  | .9967  | .9977  |
| 86.....                      | .9891                                          | .9901  | .9911  | .9921  | .9931  | .9941  | .9951  | .9961  | .9971  | .9981  |
| 87.....                      | .9894                                          | .9904  | .9914  | .9924  | .9934  | .9944  | .9954  | .9964  | .9974  | .9984  |
| 88.....                      | .9898                                          | .9908  | .9918  | .9928  | .9938  | .9948  | .9958  | .9968  | .9978  | .9988  |
| 89.....                      | .9901                                          | .9911  | .9921  | .9931  | .9941  | .9951  | .9961  | .9971  | .9981  | .9991  |
| 90.....                      | .9904                                          | .9914  | .9924  | .9934  | .9944  | .9954  | .9964  | .9974  | .9984  | .9994  |
| 91.....                      | .9908                                          | .9918  | .9928  | .9938  | .9948  | .9958  | .9968  | .9978  | .9988  | .9998  |
| 92.....                      | .9912                                          | .9922  | .9932  | .9942  | .9952  | .9962  | .9972  | .9982  | .9992  | 1.0002 |
| 93.....                      | .9915                                          | .9925  | .9935  | .9945  | .9955  | .9965  | .9975  | .9985  | .9995  | 1.0005 |
| 94.....                      | .9918                                          | .9928  | .9938  | .9948  | .9958  | .9968  | .9978  | .9988  | .9998  | 1.0008 |
| 95.....                      | .9922                                          | .9932  | .9942  | .9952  | .9962  | .9972  | .9982  | .9992  | 1.0002 | 1.0012 |
| 96.....                      | .9925                                          | .9935  | .9945  | .9955  | .9965  | .9975  | .9985  | .9995  | 1.0005 | 1.0015 |
| 97.....                      | .9929                                          | .9939  | .9949  | .9959  | .9969  | .9979  | .9989  | .9999  | 1.0009 | 1.0019 |
| 98.....                      | .9932                                          | .9942  | .9952  | .9962  | .9972  | .9982  | .9992  | 1.0002 | 1.0012 | 1.0022 |
| 99.....                      | .9936                                          | .9946  | .9956  | .9966  | .9976  | .9986  | .9996  | 1.0006 | 1.0016 | 1.0026 |
| 100.....                     | .9939                                          | .9949  | .9959  | .9969  | .9979  | .9989  | .9999  | 1.0009 | 1.0019 | 1.0029 |
| 101.....                     | .9943                                          | .9953  | .9963  | .9973  | .9983  | .9993  | 1.0003 | 1.0013 | 1.0023 | 1.0033 |
| 102.....                     | .9946                                          | .9956  | .9966  | .9976  | .9986  | .9996  | 1.0006 | 1.0016 | 1.0026 | 1.0036 |
| 103.....                     | .9949                                          | .9959  | .9969  | .9979  | .9989  | .9999  | 1.0009 | 1.0019 | 1.0029 | 1.0039 |
| 104.....                     | .9953                                          | .9963  | .9973  | .9983  | .9993  | 1.0003 | 1.0013 | 1.0023 | 1.0033 | 1.0043 |
| 105.....                     | .9956                                          | .9966  | .9976  | .9986  | .9996  | 1.0006 | 1.0016 | 1.0026 | 1.0036 | 1.0046 |
| 106.....                     | .9959                                          | .9969  | .9979  | .9989  | .9999  | 1.0009 | 1.0019 | 1.0029 | 1.0039 | 1.0049 |
| 107.....                     | .9963                                          | .9973  | .9983  | .9993  | 1.0003 | 1.0013 | 1.0023 | 1.0033 | 1.0043 | 1.0053 |
| 108.....                     | .9966                                          | .9976  | .9986  | .9996  | 1.0006 | 1.0016 | 1.0026 | 1.0036 | 1.0046 | 1.0056 |
| 109.....                     | .9970                                          | .9980  | .9990  | 1.0000 | 1.0010 | 1.0019 | 1.0029 | 1.0039 | 1.0049 | 1.0059 |
| 110.....                     | .9973                                          | .9983  | .9993  | 1.0003 | 1.0013 | 1.0023 | 1.0033 | 1.0043 | 1.0053 | 1.0063 |
| 111.....                     | .9976                                          | .9986  | .9996  | 1.0006 | 1.0016 | 1.0026 | 1.0036 | 1.0046 | 1.0056 | 1.0066 |
| 112.....                     | .9980                                          | .9990  | 1.0000 | 1.0010 | 1.0020 | 1.0029 | 1.0039 | 1.0049 | 1.0059 | 1.0069 |
| 113.....                     | .9984                                          | .9994  | 1.0004 | 1.0014 | 1.0024 | 1.0033 | 1.0043 | 1.0053 | 1.0063 | 1.0073 |
| 114.....                     | .9987                                          | .9997  | 1.0007 | 1.0017 | 1.0027 | 1.0037 | 1.0047 | 1.0057 | 1.0067 | 1.0077 |
| 115.....                     | .9990                                          | 1.0000 | 1.0010 | 1.0020 | 1.0030 | 1.0040 | 1.0050 | 1.0060 | 1.0070 | 1.0080 |
| 116.....                     | .9994                                          | 1.0004 | 1.0014 | 1.0024 | 1.0034 | 1.0044 | 1.0054 | 1.0064 | 1.0074 | 1.0084 |
| 117.....                     | .9997                                          | 1.0007 | 1.0017 | 1.0027 | 1.0037 | 1.0047 | 1.0057 | 1.0067 | 1.0077 | 1.0087 |
| 118.....                     | 1.0000                                         | 1.0010 | 1.0020 | 1.0030 | 1.0040 | 1.0050 | 1.0060 | 1.0070 | 1.0080 | 1.0090 |
| 119.....                     | 1.0004                                         | 1.0014 | 1.0024 | 1.0034 | 1.0044 | 1.0054 | 1.0064 | 1.0074 | 1.0084 | 1.0094 |
| 120.....                     | 1.0007                                         | 1.0017 | 1.0027 | 1.0037 | 1.0047 | 1.0057 | 1.0067 | 1.0077 | 1.0087 | 1.0097 |
| 121.....                     | 1.0011                                         | 1.0021 | 1.0031 | 1.0041 | 1.0051 | 1.0061 | 1.0071 | 1.0081 | 1.0091 | 1.0101 |
| 122.....                     | 1.0014                                         | 1.0024 | 1.0034 | 1.0044 | 1.0054 | 1.0064 | 1.0074 | 1.0084 | 1.0094 | 1.0104 |
| 123.....                     | 1.0017                                         | 1.0027 | 1.0037 | 1.0047 | 1.0057 | 1.0067 | 1.0077 | 1.0087 | 1.0097 | 1.0107 |
| 124.....                     | 1.0020                                         | 1.0030 | 1.0040 | 1.0050 | 1.0060 | 1.0070 | 1.0080 | 1.0090 | 1.0100 | 1.0110 |
| 125.....                     | 1.0024                                         | 1.0034 | 1.0044 | 1.0054 | 1.0064 | 1.0074 | 1.0084 | 1.0094 | 1.0104 | 1.0114 |
| 126.....                     | 1.0027                                         | 1.0037 | 1.0047 | 1.0057 | 1.0067 | 1.0077 | 1.0087 | 1.0097 | 1.0107 | 1.0117 |
| 127.....                     | 1.0030                                         | 1.0040 | 1.0050 | 1.0060 | 1.0070 | 1.0080 | 1.0090 | 1.0100 | 1.0110 | 1.0120 |
| 128.....                     | 1.0034                                         | 1.0044 | 1.0054 | 1.0064 | 1.0074 | 1.0084 | 1.0094 | 1.0104 | 1.0114 | 1.0124 |
| 129.....                     | 1.0037                                         | 1.0047 | 1.0057 | 1.0067 | 1.0077 | 1.0087 | 1.0097 | 1.0107 | 1.0117 | 1.0127 |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.980                                          | 0.981  | 0.982  | 0.983  | 0.984  | 0.985  | 0.986  | 0.987  | 0.988  | 0.989  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 130.....                    | 1.0041                                         | 1.0051 | 1.0061 | 1.0071 | 1.0081 | 1.0091 | 1.0101 | 1.0111 | 1.0121 | 1.0131 |
| 131.....                    | 1.0044                                         | 1.0054 | 1.0064 | 1.0074 | 1.0084 | 1.0094 | 1.0104 | 1.0114 | 1.0124 | 1.0134 |
| 132.....                    | 1.0048                                         | 1.0058 | 1.0068 | 1.0078 | 1.0088 | 1.0098 | 1.0108 | 1.0118 | 1.0128 | 1.0138 |
| 133.....                    | 1.0051                                         | 1.0061 | 1.0071 | 1.0081 | 1.0091 | 1.0101 | 1.0111 | 1.0121 | 1.0131 | 1.0141 |
| 134.....                    | 1.0054                                         | 1.0064 | 1.0074 | 1.0084 | 1.0094 | 1.0104 | 1.0114 | 1.0124 | 1.0134 | 1.0144 |
| 135.....                    | 1.0057                                         | 1.0067 | 1.0077 | 1.0087 | 1.0097 | 1.0107 | 1.0117 | 1.0127 | 1.0137 | 1.0147 |
| 136.....                    | 1.0060                                         | 1.0070 | 1.0080 | 1.0090 | 1.0100 | 1.0110 | 1.0120 | 1.0130 | 1.0140 | 1.0150 |
| 137.....                    | 1.0064                                         | 1.0074 | 1.0084 | 1.0094 | 1.0104 | 1.0114 | 1.0124 | 1.0134 | 1.0144 | 1.0154 |
| 138.....                    | 1.0068                                         | 1.0078 | 1.0088 | 1.0098 | 1.0108 | 1.0118 | 1.0128 | 1.0138 | 1.0148 | 1.0158 |
| 139.....                    | 1.0071                                         | 1.0081 | 1.0091 | 1.0101 | 1.0111 | 1.0121 | 1.0131 | 1.0141 | 1.0151 | 1.0161 |
| 140.....                    | 1.0074                                         | 1.0084 | 1.0094 | 1.0104 | 1.0114 | 1.0124 | 1.0134 | 1.0144 | 1.0154 | 1.0164 |
| 141.....                    | 1.0077                                         | 1.0087 | 1.0097 | 1.0107 | 1.0117 | 1.0127 | 1.0137 | 1.0147 | 1.0157 | 1.0167 |
| 142.....                    | 1.0080                                         | 1.0090 | 1.0100 | 1.0110 | 1.0120 | 1.0130 | 1.0140 | 1.0150 | 1.0160 | 1.0170 |
| 143.....                    | 1.0084                                         | 1.0094 | 1.0104 | 1.0114 | 1.0124 | 1.0134 | 1.0144 | 1.0154 | 1.0164 | 1.0174 |
| 144.....                    | 1.0087                                         | 1.0097 | 1.0107 | 1.0117 | 1.0127 | 1.0137 | 1.0147 | 1.0157 | 1.0167 | 1.0177 |
| 145.....                    | 1.0090                                         | 1.0100 | 1.0110 | 1.0120 | 1.0130 | 1.0140 | 1.0150 | 1.0160 | 1.0170 | 1.0180 |
| 146.....                    | 1.0094                                         | 1.0104 | 1.0114 | 1.0124 | 1.0134 | 1.0144 | 1.0154 | 1.0164 | 1.0174 | 1.0184 |
| 147.....                    | 1.0097                                         | 1.0107 | 1.0117 | 1.0127 | 1.0137 | 1.0147 | 1.0157 | 1.0167 | 1.0177 | 1.0187 |
| 148.....                    | 1.0101                                         | 1.0111 | 1.0121 | 1.0131 | 1.0141 | 1.0151 | 1.0161 | 1.0171 | 1.0181 | 1.0191 |
| 149.....                    | 1.0104                                         | 1.0114 | 1.0124 | 1.0134 | 1.0144 | 1.0154 | 1.0164 | 1.0174 | 1.0184 | 1.0194 |
| 150.....                    | 1.0108                                         | 1.0118 | 1.0128 | 1.0138 | 1.0148 | 1.0157 | 1.0167 | 1.0177 | 1.0187 | 1.0197 |
| 151.....                    | 1.0111                                         | 1.0121 | 1.0131 | 1.0141 | 1.0151 | 1.0160 | 1.0170 | 1.0180 | 1.0190 | 1.0200 |
| 152.....                    | 1.0114                                         | 1.0124 | 1.0134 | 1.0144 | 1.0154 | 1.0164 | 1.0174 | 1.0184 | 1.0194 | 1.0204 |
| 153.....                    | 1.0117                                         | 1.0127 | 1.0137 | 1.0147 | 1.0157 | 1.0167 | 1.0177 | 1.0187 | 1.0197 | 1.0207 |
| 154.....                    | 1.0120                                         | 1.0130 | 1.0140 | 1.0150 | 1.0160 | 1.0170 | 1.0180 | 1.0190 | 1.0200 | 1.0210 |
| 155.....                    | 1.0124                                         | 1.0134 | 1.0144 | 1.0154 | 1.0164 | 1.0174 | 1.0184 | 1.0194 | 1.0204 | 1.0214 |
| 156.....                    | 1.0127                                         | 1.0137 | 1.0147 | 1.0157 | 1.0167 | 1.0177 | 1.0187 | 1.0197 | 1.0207 | 1.0217 |
| 157.....                    | 1.0131                                         | 1.0141 | 1.0151 | 1.0161 | 1.0171 | 1.0181 | 1.0191 | 1.0201 | 1.0211 | 1.0221 |
| 158.....                    | 1.0134                                         | 1.0144 | 1.0154 | 1.0164 | 1.0174 | 1.0184 | 1.0194 | 1.0204 | 1.0214 | 1.0224 |
| 159.....                    | 1.0137                                         | 1.0147 | 1.0157 | 1.0167 | 1.0177 | 1.0187 | 1.0197 | 1.0207 | 1.0217 | 1.0227 |
| 160.....                    | 1.0140                                         | 1.0150 | 1.0160 | 1.0170 | 1.0180 | 1.0190 | 1.0200 | 1.0210 | 1.0220 | 1.0230 |
| 161.....                    | 1.0143                                         | 1.0153 | 1.0163 | 1.0173 | 1.0183 | 1.0193 | 1.0203 | 1.0213 | 1.0223 | 1.0233 |
| 162.....                    | 1.0146                                         | 1.0156 | 1.0166 | 1.0176 | 1.0186 | 1.0196 | 1.0206 | 1.0216 | 1.0226 | 1.0236 |
| 163.....                    | 1.0149                                         | 1.0159 | 1.0169 | 1.0179 | 1.0189 | 1.0199 | 1.0209 | 1.0219 | 1.0229 | 1.0239 |
| 164.....                    | 1.0152                                         | 1.0162 | 1.0172 | 1.0182 | 1.0192 | 1.0202 | 1.0212 | 1.0222 | 1.0232 | 1.0242 |
| 165.....                    | 1.0156                                         | 1.0166 | 1.0176 | 1.0186 | 1.0196 | 1.0205 | 1.0215 | 1.0225 | 1.0235 | 1.0245 |
| 166.....                    | 1.0159                                         | 1.0169 | 1.0179 | 1.0189 | 1.0199 | 1.0209 | 1.0219 | 1.0229 | 1.0239 | 1.0249 |
| 167.....                    | 1.0163                                         | 1.0173 | 1.0183 | 1.0193 | 1.0203 | 1.0212 | 1.0222 | 1.0232 | 1.0242 | 1.0252 |
| 168.....                    | 1.0166                                         | 1.0176 | 1.0186 | 1.0196 | 1.0206 | 1.0215 | 1.0225 | 1.0235 | 1.0245 | 1.0255 |
| 169.....                    | 1.0169                                         | 1.0179 | 1.0189 | 1.0199 | 1.0209 | 1.0218 | 1.0228 | 1.0238 | 1.0248 | 1.0258 |
| 170.....                    | 1.0172                                         | 1.0182 | 1.0192 | 1.0202 | 1.0212 | 1.0221 | 1.0231 | 1.0241 | 1.0251 | 1.0261 |
| 171.....                    | 1.0175                                         | 1.0185 | 1.0195 | 1.0205 | 1.0215 | 1.0224 | 1.0234 | 1.0244 | 1.0254 | 1.0264 |
| 172.....                    | 1.0178                                         | 1.0188 | 1.0198 | 1.0208 | 1.0218 | 1.0227 | 1.0237 | 1.0247 | 1.0257 | 1.0267 |
| 173.....                    | 1.0181                                         | 1.0191 | 1.0201 | 1.0211 | 1.0221 | 1.0230 | 1.0240 | 1.0250 | 1.0260 | 1.0270 |
| 174.....                    | 1.0184                                         | 1.0194 | 1.0204 | 1.0214 | 1.0224 | 1.0234 | 1.0244 | 1.0254 | 1.0264 | 1.0274 |
| 175.....                    | 1.0187                                         | 1.0197 | 1.0207 | 1.0217 | 1.0227 | 1.0237 | 1.0247 | 1.0257 | 1.0267 | 1.0277 |
| 176.....                    | 1.0190                                         | 1.0200 | 1.0210 | 1.0220 | 1.0230 | 1.0240 | 1.0250 | 1.0260 | 1.0270 | 1.0280 |
| 177.....                    | 1.0194                                         | 1.0204 | 1.0214 | 1.0224 | 1.0234 | 1.0243 | 1.0253 | 1.0263 | 1.0273 | 1.0283 |
| 178.....                    | 1.0197                                         | 1.0207 | 1.0217 | 1.0227 | 1.0237 | 1.0247 | 1.0257 | 1.0267 | 1.0277 | 1.0287 |
| 179.....                    | 1.0200                                         | 1.0210 | 1.0220 | 1.0230 | 1.0240 | 1.0250 | 1.0260 | 1.0270 | 1.0280 | 1.0290 |
| 180.....                    | 1.0203                                         | 1.0213 | 1.0223 | 1.0233 | 1.0243 | 1.0253 | 1.0263 | 1.0273 | 1.0283 | 1.0293 |
| 181.....                    | 1.0206                                         | 1.0216 | 1.0226 | 1.0236 | 1.0246 | 1.0256 | 1.0266 | 1.0276 | 1.0286 | 1.0296 |
| 182.....                    | 1.0209                                         | 1.0219 | 1.0229 | 1.0239 | 1.0249 | 1.0259 | 1.0269 | 1.0279 | 1.0289 | 1.0299 |
| 183.....                    | 1.0213                                         | 1.0223 | 1.0233 | 1.0243 | 1.0253 | 1.0263 | 1.0273 | 1.0283 | 1.0293 | 1.0303 |
| 184.....                    | 1.0216                                         | 1.0226 | 1.0236 | 1.0246 | 1.0256 | 1.0266 | 1.0276 | 1.0286 | 1.0296 | 1.0306 |
| 185.....                    | 1.0220                                         | 1.0230 | 1.0240 | 1.0250 | 1.0260 | 1.0269 | 1.0279 | 1.0289 | 1.0299 | 1.0309 |
| 186.....                    | 1.0223                                         | 1.0233 | 1.0243 | 1.0253 | 1.0263 | 1.0273 | 1.0283 | 1.0293 | 1.0303 | 1.0313 |
| 187.....                    | 1.0226                                         | 1.0236 | 1.0246 | 1.0256 | 1.0266 | 1.0276 | 1.0286 | 1.0296 | 1.0306 | 1.0316 |
| 188.....                    | 1.0229                                         | 1.0239 | 1.0249 | 1.0259 | 1.0269 | 1.0279 | 1.0289 | 1.0299 | 1.0309 | 1.0319 |
| 189.....                    | 1.0232                                         | 1.0242 | 1.0252 | 1.0262 | 1.0272 | 1.0282 | 1.0292 | 1.0302 | 1.0312 | 1.0322 |
| 190.....                    | 1.0235                                         | 1.0245 | 1.0255 | 1.0265 | 1.0275 | 1.0285 | 1.0295 | 1.0305 | 1.0315 | 1.0325 |
| 191.....                    | 1.0238                                         | 1.0248 | 1.0258 | 1.0268 | 1.0278 | 1.0288 | 1.0298 | 1.0308 | 1.0318 | 1.0328 |
| 192.....                    | 1.0241                                         | 1.0251 | 1.0261 | 1.0271 | 1.0281 | 1.0291 | 1.0301 | 1.0311 | 1.0321 | 1.0331 |
| 193.....                    | 1.0244                                         | 1.0254 | 1.0264 | 1.0274 | 1.0284 | 1.0294 | 1.0304 | 1.0314 | 1.0324 | 1.0334 |
| 194.....                    | 1.0248                                         | 1.0258 | 1.0268 | 1.0278 | 1.0288 | 1.0297 | 1.0307 | 1.0317 | 1.0327 | 1.0337 |
| 195.....                    | 1.0251                                         | 1.0261 | 1.0271 | 1.0281 | 1.0291 | 1.0301 | 1.0311 | 1.0321 | 1.0331 | 1.0341 |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.990                                          | 0.991  | 0.992  | 0.993  | 0.994  | 0.995  | 0.996  | 0.997  | 0.998  | 0.999  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 0.....                      | 0.9686                                         | 0.9696 | 0.9706 | 0.9716 | 0.9726 | 0.9736 | 0.9746 | 0.9756 | 0.9766 | 0.9776 |
| 1.....                      | .9689                                          | .9699  | .9709  | .9719  | .9729  | .9739  | .9749  | .9759  | .9769  | .9779  |
| 2.....                      | .9692                                          | .9702  | .9712  | .9722  | .9732  | .9742  | .9752  | .9762  | .9772  | .9782  |
| 3.....                      | .9696                                          | .9706  | .9716  | .9726  | .9736  | .9746  | .9756  | .9766  | .9776  | .9786  |
| 4.....                      | .9700                                          | .9710  | .9720  | .9730  | .9740  | .9750  | .9760  | .9770  | .9780  | .9790  |
| 5.....                      | .9703                                          | .9713  | .9723  | .9733  | .9743  | .9753  | .9763  | .9773  | .9783  | .9793  |
| 6.....                      | .9707                                          | .9717  | .9727  | .9737  | .9747  | .9757  | .9767  | .9777  | .9787  | .9797  |
| 7.....                      | .9710                                          | .9720  | .9730  | .9740  | .9750  | .9760  | .9770  | .9780  | .9790  | .9800  |
| 8.....                      | .9713                                          | .9723  | .9733  | .9743  | .9753  | .9764  | .9774  | .9784  | .9794  | .9804  |
| 9.....                      | .9717                                          | .9727  | .9737  | .9747  | .9757  | .9767  | .9777  | .9787  | .9797  | .9807  |
| 10.....                     | .9721                                          | .9731  | .9741  | .9751  | .9761  | .9771  | .9781  | .9791  | .9801  | .9811  |
| 11.....                     | .9725                                          | .9735  | .9745  | .9755  | .9765  | .9775  | .9785  | .9795  | .9805  | .9815  |
| 12.....                     | .9728                                          | .9738  | .9748  | .9758  | .9768  | .9779  | .9789  | .9799  | .9809  | .9819  |
| 13.....                     | .9732                                          | .9742  | .9752  | .9762  | .9772  | .9783  | .9793  | .9803  | .9813  | .9823  |
| 14.....                     | .9735                                          | .9745  | .9755  | .9765  | .9775  | .9786  | .9796  | .9806  | .9816  | .9826  |
| 15.....                     | .9739                                          | .9749  | .9759  | .9769  | .9779  | .9790  | .9800  | .9810  | .9820  | .9830  |
| 16.....                     | .9743                                          | .9753  | .9763  | .9773  | .9783  | .9794  | .9804  | .9814  | .9824  | .9834  |
| 17.....                     | .9746                                          | .9756  | .9766  | .9776  | .9786  | .9797  | .9807  | .9817  | .9827  | .9837  |
| 18.....                     | .9750                                          | .9760  | .9770  | .9780  | .9790  | .9801  | .9811  | .9821  | .9831  | .9841  |
| 19.....                     | .9754                                          | .9764  | .9774  | .9784  | .9794  | .9804  | .9814  | .9824  | .9834  | .9844  |
| 20.....                     | .9757                                          | .9767  | .9777  | .9787  | .9797  | .9807  | .9817  | .9827  | .9837  | .9847  |
| 21.....                     | .9761                                          | .9771  | .9781  | .9791  | .9801  | .9811  | .9821  | .9831  | .9841  | .9851  |
| 22.....                     | .9765                                          | .9775  | .9785  | .9795  | .9805  | .9815  | .9825  | .9835  | .9845  | .9855  |
| 23.....                     | .9768                                          | .9778  | .9788  | .9798  | .9808  | .9818  | .9828  | .9838  | .9848  | .9858  |
| 24.....                     | .9772                                          | .9782  | .9792  | .9802  | .9812  | .9822  | .9832  | .9842  | .9852  | .9862  |
| 25.....                     | .9775                                          | .9785  | .9795  | .9805  | .9815  | .9825  | .9835  | .9845  | .9855  | .9865  |
| 26.....                     | .9779                                          | .9789  | .9799  | .9809  | .9819  | .9829  | .9839  | .9849  | .9859  | .9869  |
| 27.....                     | .9783                                          | .9793  | .9803  | .9813  | .9823  | .9833  | .9843  | .9853  | .9863  | .9873  |
| 28.....                     | .9787                                          | .9797  | .9807  | .9817  | .9827  | .9837  | .9847  | .9857  | .9867  | .9877  |
| 29.....                     | .9791                                          | .9801  | .9811  | .9821  | .9831  | .9841  | .9851  | .9861  | .9871  | .9881  |
| 30.....                     | .9794                                          | .9804  | .9814  | .9824  | .9834  | .9844  | .9854  | .9864  | .9874  | .9884  |
| 31.....                     | .9798                                          | .9808  | .9818  | .9828  | .9838  | .9848  | .9858  | .9868  | .9878  | .9888  |
| 32.....                     | .9801                                          | .9811  | .9821  | .9831  | .9841  | .9851  | .9861  | .9871  | .9881  | .9891  |
| 33.....                     | .9805                                          | .9815  | .9825  | .9835  | .9845  | .9855  | .9865  | .9875  | .9885  | .9895  |
| 34.....                     | .9808                                          | .9818  | .9828  | .9838  | .9848  | .9858  | .9868  | .9878  | .9888  | .9898  |
| 35.....                     | .9812                                          | .9822  | .9832  | .9842  | .9852  | .9862  | .9872  | .9882  | .9892  | .9902  |
| 36.....                     | .9816                                          | .9826  | .9836  | .9846  | .9856  | .9866  | .9876  | .9886  | .9896  | .9906  |
| 37.....                     | .9819                                          | .9829  | .9839  | .9849  | .9859  | .9869  | .9879  | .9889  | .9899  | .9909  |
| 38.....                     | .9823                                          | .9833  | .9843  | .9853  | .9863  | .9873  | .9883  | .9893  | .9903  | .9913  |
| 39.....                     | .9826                                          | .9836  | .9846  | .9856  | .9866  | .9876  | .9886  | .9896  | .9906  | .9916  |
| 40.....                     | .9830                                          | .9840  | .9850  | .9860  | .9870  | .9880  | .9890  | .9900  | .9910  | .9920  |
| 41.....                     | .9833                                          | .9843  | .9853  | .9863  | .9873  | .9883  | .9893  | .9903  | .9913  | .9923  |
| 42.....                     | .9837                                          | .9847  | .9857  | .9867  | .9877  | .9887  | .9897  | .9907  | .9917  | .9927  |
| 43.....                     | .9841                                          | .9851  | .9861  | .9871  | .9881  | .9891  | .9901  | .9911  | .9921  | .9931  |
| 44.....                     | .9844                                          | .9854  | .9864  | .9874  | .9884  | .9894  | .9904  | .9914  | .9924  | .9934  |
| 45.....                     | .9848                                          | .9858  | .9868  | .9878  | .9888  | .9898  | .9908  | .9918  | .9928  | .9938  |
| 46.....                     | .9851                                          | .9861  | .9871  | .9881  | .9891  | .9901  | .9911  | .9921  | .9931  | .9941  |
| 47.....                     | .9854                                          | .9864  | .9874  | .9884  | .9894  | .9904  | .9914  | .9924  | .9934  | .9944  |
| 48.....                     | .9857                                          | .9867  | .9877  | .9887  | .9897  | .9907  | .9917  | .9927  | .9937  | .9947  |
| 49.....                     | .9861                                          | .9871  | .9881  | .9891  | .9901  | .9911  | .9921  | .9931  | .9941  | .9951  |
| 50.....                     | .9865                                          | .9875  | .9885  | .9895  | .9905  | .9915  | .9925  | .9935  | .9945  | .9955  |
| 51.....                     | .9868                                          | .9878  | .9888  | .9898  | .9908  | .9918  | .9928  | .9938  | .9948  | .9958  |
| 52.....                     | .9872                                          | .9882  | .9892  | .9902  | .9912  | .9922  | .9932  | .9942  | .9952  | .9962  |
| 53.....                     | .9875                                          | .9885  | .9895  | .9905  | .9915  | .9925  | .9935  | .9945  | .9955  | .9965  |
| 54.....                     | .9879                                          | .9889  | .9899  | .9909  | .9919  | .9929  | .9939  | .9949  | .9959  | .9969  |
| 55.....                     | .9882                                          | .9892  | .9902  | .9912  | .9922  | .9932  | .9942  | .9952  | .9962  | .9972  |
| 56.....                     | .9886                                          | .9896  | .9906  | .9916  | .9926  | .9936  | .9946  | .9956  | .9966  | .9976  |
| 57.....                     | .9890                                          | .9900  | .9910  | .9920  | .9930  | .9940  | .9950  | .9960  | .9970  | .9980  |
| 58.....                     | .9893                                          | .9903  | .9913  | .9923  | .9933  | .9943  | .9953  | .9963  | .9973  | .9983  |
| 59.....                     | .9897                                          | .9907  | .9917  | .9927  | .9937  | .9947  | .9957  | .9967  | .9977  | .9987  |
| 60.....                     | .9900                                          | .9910  | .9920  | .9930  | .9940  | .9950  | .9960  | .9970  | .9980  | .9990  |
| 61.....                     | .9904                                          | .9914  | .9924  | .9934  | .9944  | .9954  | .9964  | .9974  | .9984  | .9994  |
| 62.....                     | .9907                                          | .9917  | .9927  | .9937  | .9947  | .9957  | .9967  | .9977  | .9987  | .9997  |
| 63.....                     | .9910                                          | .9920  | .9930  | .9940  | .9950  | .9960  | .9970  | .9980  | .9990  | 1.0000 |
| 64.....                     | .9914                                          | .9924  | .9934  | .9944  | .9954  | .9964  | .9974  | .9984  | .9994  | 1.0004 |

TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in ° F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|------------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 0.990                                          | 0.991  | 0.992  | 0.993  | 0.994  | 0.995  | 0.996  | 0.997  | 0.998  | 0.999  |
|                              | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 65.....                      | 0.9918                                         | 0.9928 | 0.9938 | 0.9948 | 0.9958 | 0.9968 | 0.9978 | 0.9988 | 0.9998 | 1.0008 |
| 66.....                      | .9921                                          | .9931  | .9941  | .9951  | .9961  | .9971  | .9981  | .9991  | 1.0001 | 1.0011 |
| 67.....                      | .9925                                          | .9935  | .9945  | .9955  | .9965  | .9975  | .9985  | .9995  | 1.0005 | 1.0015 |
| 68.....                      | .9928                                          | .9938  | .9948  | .9958  | .9968  | .9978  | .9988  | .9998  | 1.0008 | 1.0018 |
| 69.....                      | .9931                                          | .9941  | .9951  | .9961  | .9971  | .9981  | .9991  | 1.0001 | 1.0011 | 1.0021 |
| 70.....                      | .9935                                          | .9945  | .9955  | .9965  | .9975  | .9985  | .9995  | 1.0005 | 1.0015 | 1.0025 |
| 71.....                      | .9938                                          | .9948  | .9958  | .9968  | .9978  | .9988  | .9998  | 1.0008 | 1.0018 | 1.0028 |
| 72.....                      | .9942                                          | .9952  | .9962  | .9972  | .9982  | .9992  | 1.0002 | 1.0012 | 1.0022 | 1.0032 |
| 73.....                      | .9945                                          | .9955  | .9965  | .9975  | .9985  | .9995  | 1.0005 | 1.0015 | 1.0025 | 1.0035 |
| 74.....                      | .9949                                          | .9959  | .9969  | .9979  | .9989  | .9999  | 1.0009 | 1.0019 | 1.0029 | 1.0039 |
| 75.....                      | .9953                                          | .9963  | .9973  | .9983  | .9993  | 1.0003 | 1.0013 | 1.0023 | 1.0033 | 1.0043 |
| 76.....                      | .9956                                          | .9966  | .9976  | .9986  | .9996  | 1.0006 | 1.0016 | 1.0026 | 1.0036 | 1.0046 |
| 77.....                      | .9960                                          | .9970  | .9980  | .9990  | 1.0000 | 1.0010 | 1.0020 | 1.0030 | 1.0040 | 1.0050 |
| 78.....                      | .9963                                          | .9973  | .9983  | .9993  | 1.0003 | 1.0013 | 1.0023 | 1.0033 | 1.0043 | 1.0053 |
| 79.....                      | .9966                                          | .9976  | .9986  | .9996  | 1.0006 | 1.0016 | 1.0026 | 1.0036 | 1.0046 | 1.0056 |
| 80.....                      | .9970                                          | .9980  | .9990  | 1.0000 | 1.0010 | 1.0020 | 1.0030 | 1.0040 | 1.0050 | 1.0060 |
| 81.....                      | .9974                                          | .9984  | .9994  | 1.0004 | 1.0014 | 1.0024 | 1.0034 | 1.0044 | 1.0054 | 1.0064 |
| 82.....                      | .9977                                          | .9987  | .9997  | 1.0007 | 1.0017 | 1.0027 | 1.0037 | 1.0047 | 1.0057 | 1.0067 |
| 83.....                      | .9981                                          | .9991  | 1.0001 | 1.0011 | 1.0021 | 1.0031 | 1.0041 | 1.0051 | 1.0061 | 1.0071 |
| 84.....                      | .9984                                          | .9994  | 1.0004 | 1.0014 | 1.0024 | 1.0034 | 1.0044 | 1.0054 | 1.0064 | 1.0074 |
| 85.....                      | .9987                                          | .9997  | 1.0007 | 1.0017 | 1.0027 | 1.0037 | 1.0047 | 1.0057 | 1.0067 | 1.0077 |
| 86.....                      | .9991                                          | 1.0001 | 1.0011 | 1.0021 | 1.0031 | 1.0041 | 1.0051 | 1.0061 | 1.0071 | 1.0081 |
| 87.....                      | .9994                                          | 1.0004 | 1.0014 | 1.0024 | 1.0034 | 1.0044 | 1.0054 | 1.0064 | 1.0074 | 1.0084 |
| 88.....                      | .9998                                          | 1.0008 | 1.0018 | 1.0028 | 1.0038 | 1.0048 | 1.0058 | 1.0068 | 1.0078 | 1.0088 |
| 89.....                      | 1.0001                                         | 1.0011 | 1.0021 | 1.0031 | 1.0041 | 1.0051 | 1.0061 | 1.0071 | 1.0081 | 1.0091 |
| 90.....                      | 1.0004                                         | 1.0014 | 1.0024 | 1.0034 | 1.0044 | 1.0054 | 1.0064 | 1.0074 | 1.0084 | 1.0094 |
| 91.....                      | 1.0008                                         | 1.0018 | 1.0028 | 1.0038 | 1.0048 | 1.0058 | 1.0068 | 1.0078 | 1.0088 | 1.0098 |
| 92.....                      | 1.0012                                         | 1.0022 | 1.0032 | 1.0042 | 1.0052 | 1.0062 | 1.0072 | 1.0082 | 1.0092 | 1.0102 |
| 93.....                      | 1.0015                                         | 1.0025 | 1.0035 | 1.0045 | 1.0055 | 1.0065 | 1.0075 | 1.0085 | 1.0095 | 1.0105 |
| 94.....                      | 1.0018                                         | 1.0028 | 1.0038 | 1.0048 | 1.0058 | 1.0068 | 1.0078 | 1.0088 | 1.0098 | 1.0108 |
| 95.....                      | 1.0022                                         | 1.0032 | 1.0042 | 1.0052 | 1.0062 | 1.0072 | 1.0082 | 1.0092 | 1.0102 | 1.0112 |
| 96.....                      | 1.0025                                         | 1.0035 | 1.0045 | 1.0055 | 1.0065 | 1.0075 | 1.0085 | 1.0095 | 1.0105 | 1.0115 |
| 97.....                      | 1.0029                                         | 1.0039 | 1.0049 | 1.0059 | 1.0069 | 1.0079 | 1.0089 | 1.0099 | 1.0109 | 1.0119 |
| 98.....                      | 1.0032                                         | 1.0042 | 1.0052 | 1.0062 | 1.0072 | 1.0082 | 1.0092 | 1.0102 | 1.0112 | 1.0122 |
| 99.....                      | 1.0036                                         | 1.0046 | 1.0056 | 1.0066 | 1.0076 | 1.0086 | 1.0096 | 1.0106 | 1.0116 | 1.0126 |
| 100.....                     | 1.0039                                         | 1.0049 | 1.0059 | 1.0069 | 1.0079 | 1.0089 | 1.0099 | 1.0109 | 1.0119 | 1.0129 |
| 101.....                     | 1.0043                                         | 1.0053 | 1.0063 | 1.0073 | 1.0083 | 1.0093 | 1.0103 | 1.0113 | 1.0123 | 1.0133 |
| 102.....                     | 1.0046                                         | 1.0056 | 1.0066 | 1.0076 | 1.0086 | 1.0096 | 1.0106 | 1.0116 | 1.0126 | 1.0136 |
| 103.....                     | 1.0049                                         | 1.0059 | 1.0069 | 1.0079 | 1.0089 | 1.0100 | 1.0110 | 1.0120 | 1.0130 | 1.0140 |
| 104.....                     | 1.0053                                         | 1.0063 | 1.0073 | 1.0083 | 1.0093 | 1.0103 | 1.0113 | 1.0123 | 1.0133 | 1.0143 |
| 105.....                     | 1.0056                                         | 1.0066 | 1.0076 | 1.0086 | 1.0096 | 1.0106 | 1.0116 | 1.0126 | 1.0136 | 1.0146 |
| 106.....                     | 1.0059                                         | 1.0069 | 1.0079 | 1.0089 | 1.0099 | 1.0109 | 1.0119 | 1.0129 | 1.0139 | 1.0149 |
| 107.....                     | 1.0063                                         | 1.0073 | 1.0083 | 1.0093 | 1.0103 | 1.0113 | 1.0123 | 1.0133 | 1.0143 | 1.0153 |
| 108.....                     | 1.0066                                         | 1.0076 | 1.0086 | 1.0096 | 1.0106 | 1.0116 | 1.0126 | 1.0136 | 1.0146 | 1.0156 |
| 109.....                     | 1.0069                                         | 1.0079 | 1.0089 | 1.0099 | 1.0109 | 1.0119 | 1.0129 | 1.0139 | 1.0149 | 1.0159 |
| 110.....                     | 1.0073                                         | 1.0083 | 1.0093 | 1.0103 | 1.0113 | 1.0123 | 1.0133 | 1.0143 | 1.0153 | 1.0163 |
| 111.....                     | 1.0076                                         | 1.0086 | 1.0096 | 1.0106 | 1.0116 | 1.0126 | 1.0136 | 1.0146 | 1.0156 | 1.0166 |
| 112.....                     | 1.0079                                         | 1.0089 | 1.0099 | 1.0109 | 1.0119 | 1.0129 | 1.0139 | 1.0149 | 1.0159 | 1.0169 |
| 113.....                     | 1.0083                                         | 1.0093 | 1.0103 | 1.0113 | 1.0123 | 1.0133 | 1.0143 | 1.0153 | 1.0163 | 1.0173 |
| 114.....                     | 1.0087                                         | 1.0097 | 1.0107 | 1.0117 | 1.0127 | 1.0137 | 1.0147 | 1.0157 | 1.0167 | 1.0177 |
| 115.....                     | 1.0090                                         | 1.0100 | 1.0110 | 1.0120 | 1.0130 | 1.0140 | 1.0150 | 1.0160 | 1.0170 | 1.0180 |
| 116.....                     | 1.0094                                         | 1.0104 | 1.0114 | 1.0124 | 1.0134 | 1.0144 | 1.0154 | 1.0164 | 1.0174 | 1.0184 |
| 117.....                     | 1.0097                                         | 1.0107 | 1.0117 | 1.0127 | 1.0137 | 1.0147 | 1.0157 | 1.0167 | 1.0177 | 1.0187 |
| 118.....                     | 1.0100                                         | 1.0110 | 1.0120 | 1.0130 | 1.0140 | 1.0150 | 1.0160 | 1.0170 | 1.0180 | 1.0190 |
| 119.....                     | 1.0104                                         | 1.0114 | 1.0124 | 1.0134 | 1.0144 | 1.0154 | 1.0164 | 1.0174 | 1.0184 | 1.0194 |
| 120.....                     | 1.0107                                         | 1.0117 | 1.0127 | 1.0137 | 1.0147 | 1.0157 | 1.0167 | 1.0177 | 1.0187 | 1.0197 |
| 121.....                     | 1.0111                                         | 1.0121 | 1.0131 | 1.0141 | 1.0151 | 1.0161 | 1.0171 | 1.0181 | 1.0191 | 1.0201 |
| 122.....                     | 1.0114                                         | 1.0124 | 1.0134 | 1.0144 | 1.0154 | 1.0164 | 1.0174 | 1.0184 | 1.0194 | 1.0204 |
| 123.....                     | 1.0117                                         | 1.0127 | 1.0137 | 1.0147 | 1.0157 | 1.0167 | 1.0177 | 1.0187 | 1.0197 | 1.0207 |
| 124.....                     | 1.0120                                         | 1.0130 | 1.0140 | 1.0150 | 1.0160 | 1.0170 | 1.0180 | 1.0190 | 1.0200 | 1.0210 |
| 125.....                     | 1.0124                                         | 1.0134 | 1.0144 | 1.0154 | 1.0164 | 1.0174 | 1.0184 | 1.0194 | 1.0204 | 1.0214 |
| 126.....                     | 1.0127                                         | 1.0137 | 1.0147 | 1.0157 | 1.0167 | 1.0177 | 1.0187 | 1.0197 | 1.0207 | 1.0217 |
| 127.....                     | 1.0130                                         | 1.0140 | 1.0150 | 1.0160 | 1.0170 | 1.0180 | 1.0190 | 1.0200 | 1.0210 | 1.0220 |
| 128.....                     | 1.0134                                         | 1.0144 | 1.0154 | 1.0164 | 1.0174 | 1.0184 | 1.0194 | 1.0204 | 1.0214 | 1.0224 |
| 129.....                     | 1.0137                                         | 1.0147 | 1.0157 | 1.0167 | 1.0177 | 1.0187 | 1.0197 | 1.0207 | 1.0217 | 1.0227 |



TABLE 3.—Reduction of Observed Specific Gravities to Specific Gravities at 60°/60° F.—Continued.

| Observed temperature in °F. | Observed specific gravity.                     |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 0.990                                          | 0.991  | 0.992  | 0.993  | 0.994  | 0.995  | 0.996  | 0.997  | 0.998  | 0.999  |
|                             | Corresponding specific gravities at 60°/60° F. |        |        |        |        |        |        |        |        |        |
| 130.....                    | 1.0141                                         | 1.0151 | 1.0161 | 1.0171 | 1.0181 | 1.0191 | 1.0201 | 1.0211 | 1.0221 | 1.0231 |
| 131.....                    | 1.0144                                         | 1.0154 | 1.0164 | 1.0174 | 1.0184 | 1.0194 | 1.0204 | 1.0214 | 1.0224 | 1.0234 |
| 132.....                    | 1.0148                                         | 1.0158 | 1.0168 | 1.0178 | 1.0188 | 1.0198 | 1.0208 | 1.0218 | 1.0228 | 1.0238 |
| 133.....                    | 1.0151                                         | 1.0161 | 1.0171 | 1.0181 | 1.0191 | 1.0201 | 1.0211 | 1.0221 | 1.0231 | 1.0241 |
| 134.....                    | 1.0154                                         | 1.0164 | 1.0174 | 1.0184 | 1.0194 | 1.0204 | 1.0214 | 1.0224 | 1.0234 | 1.0244 |
| 135.....                    | 1.0157                                         | 1.0167 | 1.0177 | 1.0187 | 1.0197 | 1.0207 | 1.0217 | 1.0227 | 1.0237 | 1.0247 |
| 136.....                    | 1.0160                                         | 1.0170 | 1.0180 | 1.0190 | 1.0200 | 1.0210 | 1.0220 | 1.0230 | 1.0240 | 1.0250 |
| 137.....                    | 1.0164                                         | 1.0174 | 1.0184 | 1.0194 | 1.0204 | 1.0214 | 1.0224 | 1.0234 | 1.0244 | 1.0254 |
| 138.....                    | 1.0168                                         | 1.0178 | 1.0188 | 1.0198 | 1.0208 | 1.0217 | 1.0227 | 1.0237 | 1.0247 | 1.0257 |
| 139.....                    | 1.0171                                         | 1.0181 | 1.0191 | 1.0201 | 1.0211 | 1.0220 | 1.0230 | 1.0240 | 1.0250 | 1.0260 |
| 140.....                    | 1.0174                                         | 1.0184 | 1.0194 | 1.0204 | 1.0214 | 1.0223 | 1.0233 | 1.0243 | 1.0253 | 1.0263 |
| 141.....                    | 1.0177                                         | 1.0187 | 1.0197 | 1.0207 | 1.0217 | 1.0227 | 1.0237 | 1.0247 | 1.0257 | 1.0267 |
| 142.....                    | 1.0180                                         | 1.0190 | 1.0200 | 1.0210 | 1.0220 | 1.0230 | 1.0240 | 1.0250 | 1.0260 | 1.0270 |
| 143.....                    | 1.0184                                         | 1.0194 | 1.0204 | 1.0214 | 1.0224 | 1.0234 | 1.0244 | 1.0254 | 1.0264 | 1.0274 |
| 144.....                    | 1.0187                                         | 1.0197 | 1.0207 | 1.0217 | 1.0227 | 1.0237 | 1.0247 | 1.0257 | 1.0267 | 1.0277 |
| 145.....                    | 1.0190                                         | 1.0200 | 1.0210 | 1.0220 | 1.0230 | 1.0240 | 1.0250 | 1.0260 | 1.0270 | 1.0280 |
| 146.....                    | 1.0194                                         | 1.0204 | 1.0214 | 1.0224 | 1.0234 | 1.0244 | 1.0254 | 1.0264 | 1.0274 | 1.0284 |
| 147.....                    | 1.0197                                         | 1.0207 | 1.0217 | 1.0227 | 1.0237 | 1.0247 | 1.0257 | 1.0267 | 1.0277 | 1.0287 |
| 148.....                    | 1.0201                                         | 1.0211 | 1.0221 | 1.0231 | 1.0241 | 1.0250 | 1.0260 | 1.0270 | 1.0280 | 1.0290 |
| 149.....                    | 1.0204                                         | 1.0214 | 1.0224 | 1.0234 | 1.0244 | 1.0253 | 1.0263 | 1.0273 | 1.0283 | 1.0293 |
| 150.....                    | 1.0207                                         | 1.0217 | 1.0227 | 1.0237 | 1.0247 | 1.0257 | 1.0267 | 1.0277 | 1.0287 | 1.0297 |
| 151.....                    | 1.0210                                         | 1.0220 | 1.0230 | 1.0240 | 1.0250 | 1.0260 | 1.0270 | 1.0280 | 1.0290 | 1.0300 |
| 152.....                    | 1.0214                                         | 1.0224 | 1.0234 | 1.0244 | 1.0254 | 1.0263 | 1.0273 | 1.0283 | 1.0293 | 1.0303 |
| 153.....                    | 1.0217                                         | 1.0227 | 1.0237 | 1.0247 | 1.0257 | 1.0267 | 1.0277 | 1.0287 | 1.0297 | 1.0307 |
| 154.....                    | 1.0220                                         | 1.0230 | 1.0240 | 1.0250 | 1.0260 | 1.0270 | 1.0280 | 1.0290 | 1.0300 | 1.0310 |
| 155.....                    | 1.0224                                         | 1.0234 | 1.0244 | 1.0254 | 1.0264 | 1.0274 | 1.0284 | 1.0294 | 1.0304 | 1.0314 |
| 156.....                    | 1.0227                                         | 1.0237 | 1.0247 | 1.0257 | 1.0267 | 1.0277 | 1.0287 | 1.0297 | 1.0307 | 1.0317 |
| 157.....                    | 1.0231                                         | 1.0241 | 1.0251 | 1.0261 | 1.0271 | 1.0280 | 1.0290 | 1.0300 | 1.0310 | 1.0320 |
| 158.....                    | 1.0234                                         | 1.0244 | 1.0254 | 1.0264 | 1.0274 | 1.0284 | 1.0294 | 1.0304 | 1.0314 | 1.0324 |
| 159.....                    | 1.0237                                         | 1.0247 | 1.0257 | 1.0267 | 1.0277 | 1.0287 | 1.0297 | 1.0307 | 1.0317 | 1.0327 |
| 160.....                    | 1.0240                                         | 1.0250 | 1.0260 | 1.0270 | 1.0280 | 1.0290 | 1.0300 | 1.0310 | 1.0320 | 1.0330 |
| 161.....                    | 1.0243                                         | 1.0253 | 1.0263 | 1.0273 | 1.0283 | 1.0293 | 1.0303 | 1.0313 | 1.0323 | 1.0333 |
| 162.....                    | 1.0246                                         | 1.0256 | 1.0266 | 1.0276 | 1.0286 | 1.0296 | 1.0306 | 1.0316 | 1.0326 | 1.0336 |
| 163.....                    | 1.0249                                         | 1.0259 | 1.0269 | 1.0279 | 1.0289 | 1.0299 | 1.0309 | 1.0319 | 1.0329 | 1.0339 |
| 164.....                    | 1.0252                                         | 1.0262 | 1.0272 | 1.0282 | 1.0292 | 1.0302 | 1.0312 | 1.0322 | 1.0332 | 1.0342 |
| 165.....                    | 1.0255                                         | 1.0265 | 1.0275 | 1.0285 | 1.0295 | 1.0305 | 1.0315 | 1.0325 | 1.0335 | 1.0345 |
| 166.....                    | 1.0259                                         | 1.0269 | 1.0279 | 1.0289 | 1.0299 | 1.0308 | 1.0318 | 1.0328 | 1.0338 | 1.0348 |
| 167.....                    | 1.0262                                         | 1.0272 | 1.0282 | 1.0292 | 1.0302 | 1.0312 | 1.0322 | 1.0332 | 1.0342 | 1.0352 |
| 168.....                    | 1.0265                                         | 1.0275 | 1.0285 | 1.0295 | 1.0305 | 1.0315 | 1.0325 | 1.0335 | 1.0345 | 1.0355 |
| 169.....                    | 1.0268                                         | 1.0278 | 1.0288 | 1.0298 | 1.0308 | 1.0318 | 1.0328 | 1.0338 | 1.0348 | 1.0358 |
| 170.....                    | 1.0271                                         | 1.0281 | 1.0291 | 1.0301 | 1.0311 | 1.0321 | 1.0331 | 1.0341 | 1.0351 | 1.0361 |
| 171.....                    | 1.0274                                         | 1.0284 | 1.0294 | 1.0304 | 1.0314 | 1.0324 | 1.0334 | 1.0344 | 1.0354 | 1.0364 |
| 172.....                    | 1.0277                                         | 1.0287 | 1.0297 | 1.0307 | 1.0317 | 1.0327 | 1.0337 | 1.0347 | 1.0357 | 1.0367 |
| 173.....                    | 1.0280                                         | 1.0290 | 1.0300 | 1.0310 | 1.0320 | 1.0330 | 1.0340 | 1.0350 | 1.0360 | 1.0370 |
| 174.....                    | 1.0284                                         | 1.0294 | 1.0304 | 1.0314 | 1.0324 | 1.0334 | 1.0344 | 1.0354 | 1.0364 | 1.0374 |
| 175.....                    | 1.0287                                         | 1.0297 | 1.0307 | 1.0317 | 1.0327 | 1.0337 | 1.0347 | 1.0357 | 1.0367 | 1.0377 |
| 176.....                    | 1.0290                                         | 1.0300 | 1.0310 | 1.0320 | 1.0330 | 1.0340 | 1.0350 | 1.0360 | 1.0370 | 1.0380 |
| 177.....                    | 1.0293                                         | 1.0303 | 1.0313 | 1.0323 | 1.0333 | 1.0343 | 1.0353 | 1.0363 | 1.0373 | 1.0383 |
| 178.....                    | 1.0297                                         | 1.0307 | 1.0317 | 1.0327 | 1.0337 | 1.0346 | 1.0356 | 1.0366 | 1.0376 | 1.0386 |
| 179.....                    | 1.0300                                         | 1.0310 | 1.0320 | 1.0330 | 1.0340 | 1.0350 | 1.0360 | 1.0370 | 1.0380 | 1.0390 |
| 180.....                    | 1.0303                                         | 1.0313 | 1.0323 | 1.0333 | 1.0343 | 1.0353 | 1.0363 | 1.0373 | 1.0383 | 1.0393 |
| 181.....                    | 1.0306                                         | 1.0316 | 1.0326 | 1.0336 | 1.0346 | 1.0356 | 1.0366 | 1.0376 | 1.0386 | 1.0396 |
| 182.....                    | 1.0309                                         | 1.0319 | 1.0329 | 1.0339 | 1.0349 | 1.0359 | 1.0369 | 1.0379 | 1.0389 | 1.0399 |
| 183.....                    | 1.0313                                         | 1.0323 | 1.0333 | 1.0343 | 1.0353 | 1.0363 | 1.0373 | 1.0383 | 1.0393 | 1.0403 |
| 184.....                    | 1.0316                                         | 1.0326 | 1.0336 | 1.0346 | 1.0356 | 1.0366 | 1.0376 | 1.0386 | 1.0396 | 1.0406 |
| 185.....                    | 1.0319                                         | 1.0329 | 1.0339 | 1.0349 | 1.0359 | 1.0369 | 1.0379 | 1.0389 | 1.0399 | 1.0409 |
| 186.....                    | 1.0323                                         | 1.0333 | 1.0343 | 1.0353 | 1.0363 | 1.0373 | 1.0383 | 1.0393 | 1.0403 | 1.0413 |
| 187.....                    | 1.0326                                         | 1.0336 | 1.0346 | 1.0356 | 1.0366 | 1.0376 | 1.0386 | 1.0396 | 1.0406 | 1.0416 |
| 188.....                    | 1.0329                                         | 1.0339 | 1.0349 | 1.0359 | 1.0369 | 1.0379 | 1.0389 | 1.0399 | 1.0409 | 1.0419 |
| 189.....                    | 1.0332                                         | 1.0342 | 1.0352 | 1.0362 | 1.0372 | 1.0382 | 1.0392 | 1.0402 | 1.0412 | 1.0422 |
| 190.....                    | 1.0335                                         | 1.0345 | 1.0355 | 1.0365 | 1.0375 | 1.0385 | 1.0395 | 1.0405 | 1.0415 | 1.0425 |
| 191.....                    | 1.0338                                         | 1.0348 | 1.0358 | 1.0368 | 1.0378 | 1.0388 | 1.0398 | 1.0408 | 1.0418 | 1.0428 |
| 192.....                    | 1.0341                                         | 1.0351 | 1.0361 | 1.0371 | 1.0381 | 1.0391 | 1.0401 | 1.0411 | 1.0421 | 1.0431 |
| 193.....                    | 1.0344                                         | 1.0354 | 1.0364 | 1.0374 | 1.0384 | 1.0394 | 1.0404 | 1.0414 | 1.0424 | 1.0434 |
| 194.....                    | 1.0347                                         | 1.0357 | 1.0367 | 1.0377 | 1.0387 | 1.0397 | 1.0407 | 1.0417 | 1.0427 | 1.0437 |
| 195.....                    | 1.0351                                         | 1.0361 | 1.0371 | 1.0381 | 1.0391 | 1.0401 | 1.0411 | 1.0421 | 1.0431 | 1.0441 |



TABLE 4.—Degrees A. P. I., Pounds per Gallon, and Gallons per Pound, Corresponding to the Designated Specific Gravities.

| Specific gravity at 60°/60° F. | Degrees A. P. I. | Pounds per gallon. | Gallons per pound. | Specific gravity at 60°/60° F. | Degrees A. P. I. | Pounds per gallon. | Gallons per pound. |
|--------------------------------|------------------|--------------------|--------------------|--------------------------------|------------------|--------------------|--------------------|
| .600                           | 104.33           | 4.993              | 0.2003             | .650                           | 86.19            | 5.410              | 0.1848             |
| .601                           | 103.94           | 5.001              | .1999              | .651                           | 85.86            | 5.418              | .1846              |
| .602                           | 103.55           | 5.010              | .1996              | .652                           | 85.52            | 5.426              | .1843              |
| .603                           | 103.16           | 5.018              | .1993              | .653                           | 85.19            | 5.435              | .1840              |
| .604                           | 102.77           | 5.026              | .1990              | .654                           | 84.86            | 5.443              | .1837              |
| .605                           | 102.38           | 5.035              | .1986              | .655                           | 84.53            | 5.452              | .1834              |
| .606                           | 102.00           | 5.043              | .1983              | .656                           | 84.20            | 5.460              | .1832              |
| .607                           | 101.61           | 5.051              | .1980              | .657                           | 83.87            | 5.468              | .1829              |
| .608                           | 101.23           | 5.060              | .1976              | .658                           | 83.55            | 5.476              | .1826              |
| .609                           | 100.85           | 5.068              | .1973              | .659                           | 83.22            | 5.485              | .1823              |
| .610                           | 100.47           | 5.076              | .1970              | .660                           | 82.89            | 5.493              | .1820              |
| .611                           | 100.09           | 5.084              | .1967              | .661                           | 82.57            | 5.502              | .1818              |
| .612                           | 99.71            | 5.093              | .1963              | .662                           | 82.25            | 5.510              | .1815              |
| .613                           | 99.33            | 5.101              | .1960              | .663                           | 81.92            | 5.518              | .1812              |
| .614                           | 98.96            | 5.110              | .1957              | .664                           | 81.60            | 5.526              | .1810              |
| .615                           | 98.58            | 5.118              | .1954              | .665                           | 81.28            | 5.535              | .1807              |
| .616                           | 98.21            | 5.126              | .1951              | .666                           | 80.96            | 5.543              | .1804              |
| .617                           | 97.84            | 5.135              | .1948              | .667                           | 80.64            | 5.552              | .1801              |
| .618                           | 97.46            | 5.143              | .1944              | .668                           | 80.33            | 5.560              | .1799              |
| .619                           | 97.09            | 5.151              | .1941              | .669                           | 80.01            | 5.568              | .1796              |
| .620                           | 96.73            | 5.160              | .1938              | .670                           | 79.69            | 5.577              | .1793              |
| .621                           | 96.36            | 5.168              | .1935              | .671                           | 79.38            | 5.585              | .1790              |
| .622                           | 95.99            | 5.176              | .1932              | .672                           | 79.07            | 5.593              | .1788              |
| .623                           | 95.63            | 5.185              | .1929              | .673                           | 78.75            | 5.602              | .1785              |
| .624                           | 95.26            | 5.193              | .1926              | .674                           | 78.44            | 5.610              | .1782              |
| .625                           | 94.90            | 5.201              | .1923              | .675                           | 78.13            | 5.618              | .1780              |
| .626                           | 94.54            | 5.210              | .1920              | .676                           | 77.82            | 5.627              | .1777              |
| .627                           | 94.18            | 5.218              | .1916              | .677                           | 77.51            | 5.635              | .1775              |
| .628                           | 93.82            | 5.226              | .1913              | .678                           | 77.20            | 5.643              | .1772              |
| .629                           | 93.46            | 5.235              | .1910              | .679                           | 76.89            | 5.652              | .1769              |
| .630                           | 93.10            | 5.243              | .1907              | .680                           | 76.59            | 5.660              | .1767              |
| .631                           | 92.75            | 5.251              | .1904              | .681                           | 76.28            | 5.668              | .1764              |
| .632                           | 92.39            | 5.260              | .1901              | .682                           | 75.98            | 5.677              | .1762              |
| .633                           | 92.04            | 5.268              | .1898              | .683                           | 75.67            | 5.685              | .1759              |
| .634                           | 91.69            | 5.276              | .1895              | .684                           | 75.37            | 5.693              | .1756              |
| .635                           | 91.33            | 5.285              | .1892              | .685                           | 75.07            | 5.702              | .1754              |
| .636                           | 90.98            | 5.293              | .1889              | .686                           | 74.77            | 5.710              | .1751              |
| .637                           | 90.63            | 5.301              | .1886              | .687                           | 74.47            | 5.718              | .1749              |
| .638                           | 90.29            | 5.310              | .1883              | .688                           | 74.17            | 5.727              | .1746              |
| .639                           | 89.94            | 5.318              | .1880              | .689                           | 73.87            | 5.735              | .1744              |
| .640                           | 89.59            | 5.326              | .1877              | .690                           | 73.57            | 5.743              | .1741              |
| .641                           | 89.25            | 5.335              | .1874              | .691                           | 73.28            | 5.752              | .1739              |
| .642                           | 88.90            | 5.343              | .1872              | .692                           | 72.98            | 5.760              | .1736              |
| .643                           | 88.56            | 5.351              | .1869              | .693                           | 72.68            | 5.768              | .1734              |
| .644                           | 88.22            | 5.360              | .1866              | .694                           | 72.39            | 5.777              | .1731              |
| .645                           | 87.88            | 5.368              | .1863              | .695                           | 72.10            | 5.785              | .1729              |
| .646                           | 87.54            | 5.376              | .1860              | .696                           | 71.80            | 5.793              | .1726              |
| .647                           | 87.20            | 5.385              | .1857              | .697                           | 71.51            | 5.802              | .1724              |
| .648                           | 86.86            | 5.393              | .1854              | .698                           | 71.22            | 5.810              | .1721              |
| .649                           | 86.53            | 5.402              | .1851              | .699                           | 70.93            | 5.818              | .1719              |

TABLE 4.—Degrees A. P. I., Pounds per Gallon, and Gallons per Pound, Corresponding to the Designated Specific Gravities—Continued.

| Specific gravity at 60°/60° F. | Degrees A. P. I. | Pounds per gallon. | Gallons per pound. | Specific gravity at 60°/60° F. | Degrees A. P. I. | Pounds per gallon. | Gallons per pound. |
|--------------------------------|------------------|--------------------|--------------------|--------------------------------|------------------|--------------------|--------------------|
| .700                           | 70.64            | 5.827              | 0.1716             | .750                           | 57.17            | 6.244              | 0.1602             |
| .701                           | 70.35            | 5.835              | .1714              | .751                           | 56.92            | 6.252              | .1600              |
| .702                           | 70.07            | 5.843              | .1711              | .752                           | 56.66            | 6.260              | .1597              |
| .703                           | 69.78            | 5.852              | .1709              | .753                           | 56.41            | 6.269              | .1595              |
| .704                           | 69.49            | 5.860              | .1706              | .754                           | 56.17            | 6.277              | .1593              |
| .705                           | 69.21            | 5.868              | .1704              | .755                           | 55.92            | 6.285              | .1591              |
| .706                           | 68.92            | 5.877              | .1702              | .756                           | 55.67            | 6.294              | .1589              |
| .707                           | 68.64            | 5.885              | .1699              | .757                           | 55.42            | 6.302              | .1587              |
| .708                           | 68.36            | 5.894              | .1697              | .758                           | 55.18            | 6.310              | .1585              |
| .709                           | 68.08            | 5.902              | .1694              | .759                           | 54.93            | 6.319              | .1583              |
| .710                           | 67.80            | 5.910              | .1692              | .760                           | 54.68            | 6.327              | .1580              |
| .711                           | 67.52            | 5.918              | .1690              | .761                           | 54.44            | 6.335              | .1578              |
| .712                           | 67.24            | 5.927              | .1687              | .762                           | 54.20            | 6.344              | .1576              |
| .713                           | 66.96            | 5.935              | .1685              | .763                           | 53.95            | 6.352              | .1574              |
| .714                           | 66.68            | 5.944              | .1682              | .764                           | 53.71            | 6.360              | .1572              |
| .715                           | 66.40            | 5.952              | .1680              | .765                           | 53.47            | 6.369              | .1570              |
| .716                           | 66.13            | 5.960              | .1678              | .766                           | 53.23            | 6.377              | .1568              |
| .717                           | 65.85            | 5.968              | .1676              | .767                           | 52.98            | 6.386              | .1566              |
| .718                           | 65.58            | 5.977              | .1673              | .768                           | 52.74            | 6.394              | .1564              |
| .719                           | 65.30            | 5.985              | .1671              | .769                           | 52.51            | 6.402              | .1562              |
| .720                           | 65.03            | 5.994              | .1668              | .770                           | 52.27            | 6.410              | .1560              |
| .721                           | 64.76            | 6.002              | .1666              | .771                           | 52.03            | 6.419              | .1558              |
| .722                           | 64.48            | 6.010              | .1664              | .772                           | 51.79            | 6.427              | .1556              |
| .723                           | 64.21            | 6.018              | .1662              | .773                           | 51.55            | 6.436              | .1554              |
| .724                           | 63.94            | 6.027              | .1659              | .774                           | 51.32            | 6.444              | .1552              |
| .725                           | 63.67            | 6.035              | .1657              | .775                           | 51.08            | 6.452              | .1550              |
| .726                           | 63.40            | 6.044              | .1655              | .776                           | 50.85            | 6.460              | .1548              |
| .727                           | 63.14            | 6.052              | .1652              | .777                           | 50.61            | 6.469              | .1546              |
| .728                           | 62.87            | 6.060              | .1650              | .778                           | 50.38            | 6.477              | .1544              |
| .729                           | 62.60            | 6.068              | .1648              | .779                           | 50.14            | 6.486              | .1542              |
| .730                           | 62.34            | 6.077              | .1646              | .780                           | 49.91            | 6.494              | .1540              |
| .731                           | 62.07            | 6.085              | .1643              | .781                           | 49.68            | 6.502              | .1538              |
| .732                           | 61.81            | 6.094              | .1641              | .782                           | 49.45            | 6.510              | .1536              |
| .733                           | 61.54            | 6.102              | .1639              | .783                           | 49.22            | 6.519              | .1534              |
| .734                           | 61.28            | 6.110              | .1637              | .784                           | 48.98            | 6.527              | .1532              |
| .735                           | 61.02            | 6.119              | .1634              | .785                           | 48.75            | 6.536              | .1530              |
| .736                           | 60.76            | 6.127              | .1632              | .786                           | 48.53            | 6.544              | .1528              |
| .737                           | 60.49            | 6.135              | .1630              | .787                           | 48.30            | 6.552              | .1526              |
| .738                           | 60.23            | 6.144              | .1628              | .788                           | 48.07            | 6.560              | .1524              |
| .739                           | 59.97            | 6.152              | .1626              | .789                           | 47.84            | 6.569              | .1522              |
| .740                           | 59.72            | 6.160              | .1623              | .790                           | 47.61            | 6.577              | .1520              |
| .741                           | 59.46            | 6.169              | .1621              | .791                           | 47.39            | 6.586              | .1518              |
| .742                           | 59.20            | 6.177              | .1619              | .792                           | 47.16            | 6.594              | .1517              |
| .743                           | 58.94            | 6.185              | .1617              | .793                           | 46.94            | 6.602              | .1515              |
| .744                           | 58.69            | 6.194              | .1615              | .794                           | 46.71            | 6.611              | .1513              |
| .745                           | 58.43            | 6.202              | .1612              | .795                           | 46.49            | 6.619              | .1511              |
| .746                           | 58.18            | 6.210              | .1610              | .796                           | 46.26            | 6.627              | .1509              |
| .747                           | 57.92            | 6.219              | .1608              | .797                           | 46.04            | 6.636              | .1507              |
| .748                           | 57.67            | 6.227              | .1606              | .798                           | 45.82            | 6.644              | .1505              |
| .749                           | 57.42            | 6.235              | .1604              | .799                           | 45.60            | 6.652              | .1503              |

TABLE 4.—Degrees A. P. I., Pounds per Gallon, and Gallons per Pound, Corresponding to the Designated Specific Gravities—Continued.

| Specific gravity at 60°/60° F. | Degrees A. P. I. | Pounds per gallon. | Gallons per pound. | Specific gravity at 60°/60° F. | Degrees A. P. I. | Pounds per gallon. | Gallons per pound. |
|--------------------------------|------------------|--------------------|--------------------|--------------------------------|------------------|--------------------|--------------------|
| .800                           | 45.38            | 6.661              | 0.1501             | .850                           | 34.97            | 7.078              | 0.1413             |
| .801                           | 45.15            | 6.669              | .1500              | .851                           | 34.77            | 7.086              | .1411              |
| .802                           | 44.93            | 6.677              | .1498              | .852                           | 34.58            | 7.094              | .1410              |
| .803                           | 44.71            | 6.686              | .1496              | .853                           | 34.39            | 7.103              | .1408              |
| .804                           | 44.49            | 6.694              | .1494              | .854                           | 34.19            | 7.111              | .1406              |
| .805                           | 44.28            | 6.702              | .1492              | .855                           | 34.00            | 7.119              | .1405              |
| .806                           | 44.06            | 6.711              | .1490              | .856                           | 33.80            | 7.128              | .1403              |
| .807                           | 43.84            | 6.719              | .1488              | .857                           | 33.61            | 7.136              | .1401              |
| .808                           | 43.62            | 6.727              | .1486              | .858                           | 33.42            | 7.144              | .1400              |
| .809                           | 43.41            | 6.736              | .1485              | .859                           | 33.23            | 7.153              | .1398              |
| .810                           | 43.19            | 6.744              | .1483              | .860                           | 33.03            | 7.161              | .1396              |
| .811                           | 42.98            | 6.752              | .1481              | .861                           | 32.84            | 7.169              | .1395              |
| .812                           | 42.76            | 6.761              | .1479              | .862                           | 32.65            | 7.178              | .1393              |
| .813                           | 42.55            | 6.769              | .1477              | .863                           | 32.46            | 7.186              | .1392              |
| .814                           | 42.33            | 6.777              | .1476              | .864                           | 32.27            | 7.194              | .1390              |
| .815                           | 42.12            | 6.786              | .1474              | .865                           | 32.08            | 7.203              | .1388              |
| .816                           | 41.91            | 6.794              | .1472              | .866                           | 31.89            | 7.211              | .1387              |
| .817                           | 41.69            | 6.802              | .1470              | .867                           | 31.71            | 7.219              | .1385              |
| .818                           | 41.48            | 6.811              | .1468              | .868                           | 31.52            | 7.228              | .1384              |
| .819                           | 41.27            | 6.819              | .1466              | .869                           | 31.33            | 7.236              | .1382              |
| .820                           | 41.06            | 6.827              | .1465              | .870                           | 31.14            | 7.244              | .1380              |
| .821                           | 40.85            | 6.836              | .1463              | .871                           | 30.96            | 7.253              | .1379              |
| .822                           | 40.64            | 6.844              | .1461              | .872                           | 30.77            | 7.261              | .1377              |
| .823                           | 40.43            | 6.852              | .1459              | .873                           | 30.58            | 7.269              | .1376              |
| .824                           | 40.22            | 6.861              | .1458              | .874                           | 30.40            | 7.278              | .1374              |
| .825                           | 40.02            | 6.869              | .1456              | .875                           | 30.21            | 7.286              | .1372              |
| .826                           | 39.81            | 6.877              | .1454              | .876                           | 30.03            | 7.294              | .1371              |
| .827                           | 39.60            | 6.886              | .1452              | .877                           | 29.85            | 7.303              | .1369              |
| .828                           | 39.39            | 6.894              | .1450              | .878                           | 29.66            | 7.311              | .1368              |
| .829                           | 39.19            | 6.902              | .1449              | .879                           | 29.48            | 7.319              | .1366              |
| .830                           | 38.98            | 6.911              | .1447              | .880                           | 29.30            | 7.328              | .1365              |
| .831                           | 38.78            | 6.919              | .1445              | .881                           | 29.11            | 7.336              | .1363              |
| .832                           | 38.57            | 6.927              | .1444              | .882                           | 28.93            | 7.344              | .1362              |
| .833                           | 38.37            | 6.936              | .1442              | .883                           | 28.75            | 7.353              | .1360              |
| .834                           | 38.16            | 6.944              | .1440              | .884                           | 28.57            | 7.361              | .1358              |
| .835                           | 37.96            | 6.952              | .1438              | .885                           | 28.39            | 7.369              | .1357              |
| .836                           | 37.76            | 6.961              | .1437              | .886                           | 28.21            | 7.378              | .1355              |
| .837                           | 37.56            | 6.969              | .1435              | .887                           | 28.03            | 7.386              | .1354              |
| .838                           | 37.35            | 6.978              | .1433              | .888                           | 27.85            | 7.394              | .1352              |
| .839                           | 37.15            | 6.986              | .1432              | .889                           | 27.67            | 7.403              | .1351              |
| .840                           | 36.95            | 6.994              | .1430              | .890                           | 27.49            | 7.411              | .1349              |
| .841                           | 36.75            | 7.002              | .1428              | .891                           | 27.31            | 7.419              | .1348              |
| .842                           | 36.55            | 7.011              | .1426              | .892                           | 27.13            | 7.428              | .1346              |
| .843                           | 36.35            | 7.019              | .1425              | .893                           | 26.95            | 7.436              | .1345              |
| .844                           | 36.15            | 7.028              | .1423              | .894                           | 26.78            | 7.444              | .1343              |
| .845                           | 35.96            | 7.036              | .1421              | .895                           | 26.60            | 7.453              | .1342              |
| .846                           | 35.76            | 7.044              | .1420              | .896                           | 26.42            | 7.461              | .1340              |
| .847                           | 35.56            | 7.052              | .1418              | .897                           | 26.25            | 7.469              | .1339              |
| .848                           | 35.36            | 7.061              | .1416              | .898                           | 26.07            | 7.478              | .1337              |
| .849                           | 35.17            | 7.069              | .1415              | .899                           | 25.90            | 7.486              | .1336              |

TABLE 4.—Degrees A. P. I., Pounds per Gallon, and Gallons per Pound, Corresponding to the Designated Specific Gravities—Continued.

| Specific gravity at 60°/60° F. | Degrees A. P. I. | Pounds per gallon. | Gallons per pound. | Specific gravity at 60°/60° F. | Degrees A. P. I. | Pounds per gallon. | Gallons per pound. |
|--------------------------------|------------------|--------------------|--------------------|--------------------------------|------------------|--------------------|--------------------|
| .900                           | 25.72            | 7.494              | .1334              | .950                           | 17.45            | 7.911              | .1264              |
| .901                           | 25.55            | 7.503              | .1333              | .951                           | 17.29            | 7.920              | .1263              |
| .902                           | 25.37            | 7.511              | .1331              | .952                           | 17.13            | 7.928              | .1261              |
| .903                           | 25.20            | 7.519              | .1330              | .953                           | 16.98            | 7.937              | .1260              |
| .904                           | 25.03            | 7.528              | .1328              | .954                           | 16.82            | 7.945              | .1259              |
| .905                           | 24.85            | 7.536              | .1327              | .955                           | 16.67            | 7.953              | .1257              |
| .906                           | 24.68            | 7.544              | .1326              | .956                           | 16.51            | 7.962              | .1256              |
| .907                           | 24.51            | 7.553              | .1324              | .957                           | 16.36            | 7.970              | .1255              |
| .908                           | 24.34            | 7.561              | .1323              | .958                           | 16.20            | 7.978              | .1253              |
| .909                           | 24.17            | 7.569              | .1321              | .959                           | 16.05            | 7.987              | .1252              |
| .910                           | 23.99            | 7.578              | .1320              | .960                           | 15.90            | 7.995              | .1251              |
| .911                           | 23.82            | 7.586              | .1318              | .961                           | 15.74            | 8.003              | .1250              |
| .912                           | 23.65            | 7.594              | .1317              | .962                           | 15.59            | 8.012              | .1248              |
| .913                           | 23.48            | 7.603              | .1315              | .963                           | 15.44            | 8.020              | .1247              |
| .914                           | 23.31            | 7.611              | .1314              | .964                           | 15.28            | 8.028              | .1246              |
| .915                           | 23.14            | 7.620              | .1312              | .965                           | 15.13            | 8.036              | .1244              |
| .916                           | 22.98            | 7.628              | .1311              | .966                           | 14.98            | 8.045              | .1243              |
| .917                           | 22.81            | 7.636              | .1310              | .967                           | 14.83            | 8.053              | .1242              |
| .918                           | 22.64            | 7.645              | .1308              | .968                           | 14.68            | 8.062              | .1240              |
| .919                           | 22.47            | 7.653              | .1307              | .969                           | 14.53            | 8.070              | .1239              |
| .920                           | 22.30            | 7.661              | .1305              | .970                           | 14.38            | 8.078              | .1238              |
| .921                           | 22.14            | 7.670              | .1304              | .971                           | 14.23            | 8.087              | .1237              |
| .922                           | 21.97            | 7.678              | .1302              | .972                           | 14.08            | 8.095              | .1235              |
| .923                           | 21.80            | 7.686              | .1301              | .973                           | 13.93            | 8.103              | .1234              |
| .924                           | 21.64            | 7.695              | .1300              | .974                           | 13.78            | 8.112              | .1233              |
| .925                           | 21.47            | 7.703              | .1298              | .975                           | 13.63            | 8.120              | .1232              |
| .926                           | 21.31            | 7.711              | .1297              | .976                           | 13.48            | 8.128              | .1230              |
| .927                           | 21.14            | 7.720              | .1295              | .977                           | 13.33            | 8.137              | .1229              |
| .928                           | 20.98            | 7.728              | .1294              | .978                           | 13.18            | 8.145              | .1228              |
| .929                           | 20.81            | 7.736              | .1293              | .979                           | 13.04            | 8.153              | .1227              |
| .930                           | 20.65            | 7.745              | .1291              | .980                           | 12.89            | 8.162              | .1225              |
| .931                           | 20.49            | 7.753              | .1290              | .981                           | 12.74            | 8.170              | .1224              |
| .932                           | 20.32            | 7.761              | .1288              | .982                           | 12.59            | 8.178              | .1223              |
| .933                           | 20.16            | 7.770              | .1287              | .983                           | 12.45            | 8.187              | .1221              |
| .934                           | 20.00            | 7.778              | .1286              | .984                           | 12.30            | 8.195              | .1220              |
| .935                           | 19.84            | 7.786              | .1284              | .985                           | 12.15            | 8.203              | .1219              |
| .936                           | 19.68            | 7.795              | .1283              | .986                           | 12.01            | 8.212              | .1218              |
| .937                           | 19.51            | 7.803              | .1282              | .987                           | 11.86            | 8.220              | .1217              |
| .938                           | 19.35            | 7.811              | .1280              | .988                           | 11.72            | 8.228              | .1215              |
| .939                           | 19.19            | 7.820              | .1279              | .989                           | 11.57            | 8.237              | .1214              |
| .940                           | 19.03            | 7.828              | .1278              | .990                           | 11.43            | 8.245              | .1213              |
| .941                           | 18.87            | 7.836              | .1276              | .991                           | 11.29            | 8.253              | .1212              |
| .942                           | 18.71            | 7.845              | .1275              | .992                           | 11.14            | 8.262              | .1210              |
| .943                           | 18.55            | 7.853              | .1273              | .993                           | 11.00            | 8.270              | .1209              |
| .944                           | 18.39            | 7.861              | .1272              | .994                           | 10.85            | 8.278              | .1208              |
| .945                           | 18.24            | 7.870              | .1271              | .995                           | 10.71            | 8.287              | .1207              |
| .946                           | 18.08            | 7.878              | .1269              | .996                           | 10.57            | 8.295              | .1206              |
| .947                           | 17.92            | 7.886              | .1268              | .997                           | 10.43            | 8.303              | .1204              |
| .948                           | 17.76            | 7.895              | .1267              | .998                           | 10.28            | 8.312              | .1203              |
| .949                           | 17.60            | 7.903              | .1265              | .999                           | 10.14            | 8.320              | .1202              |
|                                |                  |                    |                    | 1.000                          | 10.00            | 8.328              | .1201              |



TABLE 4.—Degrees A. P. I., Pounds per Gallon, and Gallons per Pound, Corresponding to the Designated Specific Gravities—Continued.

| Specific gravity at 60°/60° F. | Degrees A. P. I. | Pounds per gallon. | Gallons per pound. | Specific gravity at 60°/60° F. | Degrees A. P. I. | Pounds per gallon. | Gallons per pound. |
|--------------------------------|------------------|--------------------|--------------------|--------------------------------|------------------|--------------------|--------------------|
| 1.001                          | 9.86             | 8.337              | 0.1199             | 1.041                          | 4.43             | 8.670              | 0.1153             |
| 1.002                          | 9.72             | 8.345              | .1198              | 1.042                          | 4.30             | 8.678              | .1152              |
| 1.003                          | 9.58             | 8.353              | .1197              | 1.043                          | 4.17             | 8.687              | .1151              |
| 1.004                          | 9.44             | 8.362              | .1196              | 1.044                          | 4.04             | 8.695              | .1150              |
| 1.005                          | 9.30             | 8.370              | .1195              | 1.045                          | 3.91             | 8.704              | .1149              |
| 1.006                          | 9.16             | 8.378              | .1194              | 1.046                          | 3.78             | 8.712              | .1148              |
| 1.007                          | 9.02             | 8.387              | .1192              | 1.047                          | 3.65             | 8.720              | .1147              |
| 1.008                          | 8.88             | 8.395              | .1191              | 1.048                          | 3.52             | 8.729              | .1146              |
| 1.009                          | 8.74             | 8.403              | .1190              | 1.049                          | 3.39             | 8.737              | .1145              |
| 1.010                          | 8.60             | 8.412              | .1189              | 1.050                          | 3.26             | 8.745              | .1143              |
| 1.011                          | 8.46             | 8.420              | .1188              | 1.051                          | 3.13             | 8.754              | .1142              |
| 1.012                          | 8.32             | 8.428              | .1186              | 1.052                          | 3.01             | 8.762              | .1141              |
| 1.013                          | 8.18             | 8.437              | .1185              | 1.053                          | 2.88             | 8.770              | .1140              |
| 1.014                          | 8.05             | 8.445              | .1184              | 1.054                          | 2.75             | 8.779              | .1139              |
| 1.015                          | 7.91             | 8.453              | .1183              | 1.055                          | 2.62             | 8.787              | .1138              |
| 1.016                          | 7.77             | 8.462              | .1182              | 1.056                          | 2.50             | 8.795              | .1137              |
| 1.017                          | 7.63             | 8.470              | .1181              | 1.057                          | 2.37             | 8.804              | .1136              |
| 1.018                          | 7.50             | 8.478              | .1180              | 1.058                          | 2.24             | 8.812              | .1135              |
| 1.019                          | 7.36             | 8.487              | .1178              | 1.059                          | 2.12             | 8.820              | .1134              |
| 1.020                          | 7.23             | 8.495              | .1177              | 1.060                          | 1.99             | 8.829              | .1133              |
| 1.021                          | 7.09             | 8.503              | .1176              | 1.061                          | 1.86             | 8.837              | .1132              |
| 1.022                          | 6.95             | 8.512              | .1175              | 1.062                          | 1.74             | 8.845              | .1131              |
| 1.023                          | 6.82             | 8.520              | .1174              | 1.063                          | 1.61             | 8.854              | .1129              |
| 1.024                          | 6.68             | 8.528              | .1173              | 1.064                          | 1.49             | 8.862              | .1128              |
| 1.025                          | 6.55             | 8.537              | .1171              | 1.065                          | 1.36             | 8.870              | .1127              |
| 1.026                          | 6.41             | 8.545              | .1170              | 1.066                          | 1.24             | 8.879              | .1126              |
| 1.027                          | 6.28             | 8.553              | .1169              | 1.067                          | 1.11             | 8.887              | .1125              |
| 1.028                          | 6.15             | 8.562              | .1168              | 1.068                          | .99              | 8.895              | .1124              |
| 1.029                          | 6.01             | 8.570              | .1167              | 1.069                          | .87              | 8.904              | .1123              |
| 1.030                          | 5.88             | 8.578              | .1166              | 1.070                          | .74              | 8.912              | .1122              |
| 1.031                          | 5.75             | 8.587              | .1165              | 1.071                          | .62              | 8.920              | .1121              |
| 1.032                          | 5.61             | 8.595              | .1163              | 1.072                          | .50              | 8.929              | .1120              |
| 1.033                          | 5.48             | 8.603              | .1162              | 1.073                          | .37              | 8.937              | .1119              |
| 1.034                          | 5.35             | 8.612              | .1161              | 1.074                          | .25              | 8.945              | .1118              |
| 1.035                          | 5.21             | 8.620              | .1160              | 1.075                          | .13              | 8.954              | .1117              |
| 1.036                          | 5.08             | 8.628              | .1159              | 1.076                          | .01              | 8.962              | .1116              |
| 1.037                          | 4.95             | 8.637              | .1158              |                                |                  |                    |                    |
| 1.038                          | 4.82             | 8.645              | .1157              |                                |                  |                    |                    |
| 1.039                          | 4.69             | 8.653              | .1156              |                                |                  |                    |                    |
| 1.040                          | 4.56             | 8.662              | .1154              |                                |                  |                    |                    |

TABLE 5.—Specific Gravities, Pounds per Gallon, and Gallons per Pound, Corresponding to the Designated Degrees A. P. I.

| Degrees<br>A. P. I. | Specific<br>gravity at<br>60°/60° F. | Pounds<br>per<br>gallon. | Gallons<br>per<br>pound. | Degrees<br>A. P. I. | Specific<br>gravity at<br>60°/60° F. | Pounds<br>per<br>gallon. | Gallons<br>per<br>pound. |
|---------------------|--------------------------------------|--------------------------|--------------------------|---------------------|--------------------------------------|--------------------------|--------------------------|
| 0.0                 | 1.076                                | 8.962                    | 0.1116                   | 5.0                 | 1.037                                | 8.634                    | 0.1158                   |
| .1                  | 1.075                                | 8.956                    | .1117                    | 5.1                 | 1.036                                | 8.627                    | .1159                    |
| .2                  | 1.074                                | 8.949                    | .1117                    | 5.2                 | 1.035                                | 8.621                    | .1160                    |
| .3                  | 1.074                                | 8.942                    | .1118                    | 5.3                 | 1.034                                | 8.615                    | .1161                    |
| .4                  | 1.073                                | 8.935                    | .1119                    | 5.4                 | 1.034                                | 8.608                    | .1162                    |
| .5                  | 1.072                                | 8.928                    | .1120                    | 5.5                 | 1.033                                | 8.602                    | .1163                    |
| .6                  | 1.071                                | 8.922                    | .1121                    | 5.6                 | 1.032                                | 8.596                    | .1163                    |
| .7                  | 1.070                                | 8.915                    | .1122                    | 5.7                 | 1.031                                | 8.590                    | .1164                    |
| .8                  | 1.070                                | 8.908                    | .1123                    | 5.8                 | 1.031                                | 8.583                    | .1165                    |
| .9                  | 1.069                                | 8.901                    | .1123                    | 5.9                 | 1.030                                | 8.577                    | .1166                    |
| 1.0                 | 1.068                                | 8.895                    | .1124                    | 6.0                 | 1.029                                | 8.571                    | .1167                    |
| 1.1                 | 1.067                                | 8.888                    | .1125                    | 6.1                 | 1.028                                | 8.565                    | .1168                    |
| 1.2                 | 1.066                                | 8.881                    | .1126                    | 6.2                 | 1.028                                | 8.558                    | .1168                    |
| 1.3                 | 1.066                                | 8.875                    | .1127                    | 6.3                 | 1.027                                | 8.552                    | .1169                    |
| 1.4                 | 1.065                                | 8.868                    | .1128                    | 6.4                 | 1.026                                | 8.546                    | .1170                    |
| 1.5                 | 1.064                                | 8.861                    | .1129                    | 6.5                 | 1.025                                | 8.540                    | .1171                    |
| 1.6                 | 1.063                                | 8.855                    | .1129                    | 6.6                 | 1.025                                | 8.534                    | .1172                    |
| 1.7                 | 1.062                                | 8.848                    | .1130                    | 6.7                 | 1.024                                | 8.527                    | .1173                    |
| 1.8                 | 1.062                                | 8.841                    | .1131                    | 6.8                 | 1.023                                | 8.521                    | .1174                    |
| 1.9                 | 1.061                                | 8.835                    | .1132                    | 6.9                 | 1.022                                | 8.515                    | .1174                    |
| 2.0                 | 1.060                                | 8.828                    | .1133                    | 7.0                 | 1.022                                | 8.509                    | .1175                    |
| 2.1                 | 1.059                                | 8.821                    | .1134                    | 7.1                 | 1.021                                | 8.503                    | .1176                    |
| 2.2                 | 1.058                                | 8.815                    | .1134                    | 7.2                 | 1.020                                | 8.497                    | .1177                    |
| 2.3                 | 1.058                                | 8.808                    | .1135                    | 7.3                 | 1.019                                | 8.490                    | .1178                    |
| 2.4                 | 1.057                                | 8.802                    | .1136                    | 7.4                 | 1.019                                | 8.484                    | .1179                    |
| 2.5                 | 1.056                                | 8.795                    | .1137                    | 7.5                 | 1.018                                | 8.478                    | .1180                    |
| 2.6                 | 1.055                                | 8.788                    | .1138                    | 7.6                 | 1.017                                | 8.472                    | .1180                    |
| 2.7                 | 1.054                                | 8.782                    | .1139                    | 7.7                 | 1.017                                | 8.466                    | .1181                    |
| 2.8                 | 1.054                                | 8.775                    | .1140                    | 7.8                 | 1.016                                | 8.460                    | .1182                    |
| 2.9                 | 1.053                                | 8.769                    | .1140                    | 7.9                 | 1.015                                | 8.454                    | .1183                    |
| 3.0                 | 1.052                                | 8.762                    | .1141                    | 8.0                 | 1.014                                | 8.448                    | .1184                    |
| 3.1                 | 1.051                                | 8.756                    | .1142                    | 8.1                 | 1.014                                | 8.442                    | .1185                    |
| 3.2                 | 1.050                                | 8.749                    | .1143                    | 8.2                 | 1.013                                | 8.436                    | .1185                    |
| 3.3                 | 1.050                                | 8.743                    | .1144                    | 8.3                 | 1.012                                | 8.430                    | .1186                    |
| 3.4                 | 1.049                                | 8.736                    | .1145                    | 8.4                 | 1.011                                | 8.424                    | .1187                    |
| 3.5                 | 1.048                                | 8.730                    | .1145                    | 8.5                 | 1.011                                | 8.418                    | .1188                    |
| 3.6                 | 1.047                                | 8.723                    | .1146                    | 8.6                 | 1.010                                | 8.412                    | .1189                    |
| 3.7                 | 1.047                                | 8.717                    | .1147                    | 8.7                 | 1.009                                | 8.406                    | .1190                    |
| 3.8                 | 1.046                                | 8.710                    | .1148                    | 8.8                 | 1.009                                | 8.400                    | .1190                    |
| 3.9                 | 1.045                                | 8.704                    | .1149                    | 8.9                 | 1.008                                | 8.394                    | .1191                    |
| 4.0                 | 1.044                                | 8.698                    | .1150                    | 9.0                 | 1.007                                | 8.388                    | .1192                    |
| 4.1                 | 1.044                                | 8.691                    | .1151                    | 9.1                 | 1.006                                | 8.382                    | .1193                    |
| 4.2                 | 1.043                                | 8.685                    | .1151                    | 9.2                 | 1.006                                | 8.376                    | .1194                    |
| 4.3                 | 1.042                                | 8.678                    | .1152                    | 9.3                 | 1.005                                | 8.370                    | .1195                    |
| 4.4                 | 1.041                                | 8.672                    | .1153                    | 9.4                 | 1.004                                | 8.364                    | .1196                    |
| 4.5                 | 1.040                                | 8.666                    | .1154                    | 9.5                 | 1.004                                | 8.358                    | .1196                    |
| 4.6                 | 1.040                                | 8.659                    | .1155                    | 9.6                 | 1.003                                | 8.352                    | .1197                    |
| 4.7                 | 1.039                                | 8.653                    | .1156                    | 9.7                 | 1.002                                | 8.346                    | .1198                    |
| 4.8                 | 1.038                                | 8.646                    | .1157                    | 9.8                 | 1.001                                | 8.340                    | .1199                    |
| 4.9                 | 1.037                                | 8.640                    | .1157                    | 9.9                 | 1.001                                | 8.334                    | .1200                    |

TABLE 5.—Specific Gravities, Pounds per Gallon, and Gallons per Pound, Corresponding to the Designated Degrees A. P. I.—Continued.

| Degrees<br>A. P. I. | Specific<br>gravity at<br>60°/60° F. | Pounds<br>per<br>gallon. | Gallons<br>per<br>pound. | Degrees<br>A. P. I. | Specific<br>gravity at<br>60°/60° F. | Pounds<br>per<br>gallon. | Gallons<br>per<br>pound. |
|---------------------|--------------------------------------|--------------------------|--------------------------|---------------------|--------------------------------------|--------------------------|--------------------------|
| 10.0                | 1.0000                               | 8.328                    | 0.1201                   | 16.0                | 0.9593                               | 7.989                    | 0.1252                   |
| 10.1                | .9993                                | 8.324                    | .1202                    | 16.1                | .9587                                | 7.984                    | .1253                    |
| 10.2                | .9986                                | 8.317                    | .1202                    | 16.2                | .9580                                | 7.978                    | .1253                    |
| 10.3                | .9979                                | 8.311                    | .1203                    | 16.3                | .9574                                | 7.973                    | .1254                    |
| 10.4                | .9972                                | 8.305                    | .1204                    | 16.4                | .9567                                | 7.967                    | .1255                    |
| 10.5                | .9965                                | 8.299                    | .1205                    | 16.5                | .9561                                | 7.962                    | .1256                    |
| 10.6                | .9958                                | 8.293                    | .1206                    | 16.6                | .9554                                | 7.956                    | .1257                    |
| 10.7                | .9951                                | 8.287                    | .1207                    | 16.7                | .9548                                | 7.951                    | .1258                    |
| 10.8                | .9944                                | 8.282                    | .1207                    | 16.8                | .9541                                | 7.946                    | .1258                    |
| 10.9                | .9937                                | 8.276                    | .1208                    | 16.9                | .9535                                | 7.940                    | .1259                    |
| 11.0                | .9930                                | 8.270                    | .1209                    | 17.0                | .9529                                | 7.935                    | .1260                    |
| 11.1                | .9923                                | 8.264                    | .1210                    | 17.1                | .9522                                | 7.930                    | .1261                    |
| 11.2                | .9916                                | 8.258                    | .1211                    | 17.2                | .9516                                | 7.925                    | .1262                    |
| 11.3                | .9909                                | 8.252                    | .1212                    | 17.3                | .9509                                | 7.919                    | .1263                    |
| 11.4                | .9902                                | 8.246                    | .1213                    | 17.4                | .9503                                | 7.914                    | .1264                    |
| 11.5                | .9895                                | 8.241                    | .1213                    | 17.5                | .9497                                | 7.909                    | .1264                    |
| 11.6                | .9888                                | 8.235                    | .1214                    | 17.6                | .9490                                | 7.903                    | .1265                    |
| 11.7                | .9881                                | 8.229                    | .1215                    | 17.7                | .9484                                | 7.898                    | .1266                    |
| 11.8                | .9874                                | 8.223                    | .1216                    | 17.8                | .9478                                | 7.893                    | .1267                    |
| 11.9                | .9868                                | 8.218                    | .1217                    | 17.9                | .9471                                | 7.887                    | .1268                    |
| 12.0                | .9861                                | 8.212                    | .1218                    | 18.0                | .9465                                | 7.882                    | .1269                    |
| 12.1                | .9854                                | 8.206                    | .1219                    | 18.1                | .9459                                | 7.877                    | .1270                    |
| 12.2                | .9847                                | 8.201                    | .1219                    | 18.2                | .9452                                | 7.871                    | .1270                    |
| 12.3                | .9840                                | 8.195                    | .1220                    | 18.3                | .9446                                | 7.866                    | .1271                    |
| 12.4                | .9833                                | 8.189                    | .1221                    | 18.4                | .9440                                | 7.861                    | .1272                    |
| 12.5                | .9826                                | 8.183                    | .1222                    | 18.5                | .9433                                | 7.856                    | .1273                    |
| 12.6                | .9820                                | 8.178                    | .1223                    | 18.6                | .9427                                | 7.851                    | .1274                    |
| 12.7                | .9813                                | 8.172                    | .1224                    | 18.7                | .9421                                | 7.846                    | .1275                    |
| 12.8                | .9806                                | 8.166                    | .1225                    | 18.8                | .9415                                | 7.841                    | .1275                    |
| 12.9                | .9799                                | 8.161                    | .1225                    | 18.9                | .9408                                | 7.835                    | .1276                    |
| 13.0                | .9792                                | 8.155                    | .1226                    | 19.0                | .9402                                | 7.830                    | .1277                    |
| 13.1                | .9786                                | 8.150                    | .1227                    | 19.1                | .9396                                | 7.825                    | .1278                    |
| 13.2                | .9779                                | 8.144                    | .1228                    | 19.2                | .9390                                | 7.820                    | .1279                    |
| 13.3                | .9772                                | 8.138                    | .1229                    | 19.3                | .9383                                | 7.814                    | .1280                    |
| 13.4                | .9765                                | 8.132                    | .1230                    | 19.4                | .9377                                | 7.809                    | .1281                    |
| 13.5                | .9759                                | 8.127                    | .1230                    | 19.5                | .9371                                | 7.804                    | .1281                    |
| 13.6                | .9752                                | 8.122                    | .1231                    | 19.6                | .9365                                | 7.799                    | .1282                    |
| 13.7                | .9745                                | 8.116                    | .1232                    | 19.7                | .9358                                | 7.793                    | .1283                    |
| 13.8                | .9738                                | 8.110                    | .1233                    | 19.8                | .9352                                | 7.788                    | .1284                    |
| 13.9                | .9732                                | 8.105                    | .1234                    | 19.9                | .9346                                | 7.783                    | .1285                    |
| 14.0                | .9725                                | 8.099                    | .1235                    | 20.0                | .9340                                | 7.778                    | .1286                    |
| 14.1                | .9718                                | 8.093                    | .1236                    | 20.1                | .9334                                | 7.773                    | .1287                    |
| 14.2                | .9712                                | 8.088                    | .1236                    | 20.2                | .9328                                | 7.768                    | .1287                    |
| 14.3                | .9705                                | 8.082                    | .1237                    | 20.3                | .9321                                | 7.762                    | .1288                    |
| 14.4                | .9698                                | 8.076                    | .1238                    | 20.4                | .9315                                | 7.757                    | .1289                    |
| 14.5                | .9692                                | 8.071                    | .1239                    | 20.5                | .9309                                | 7.752                    | .1290                    |
| 14.6                | .9685                                | 8.066                    | .1240                    | 20.6                | .9303                                | 7.747                    | .1291                    |
| 14.7                | .9679                                | 8.061                    | .1241                    | 20.7                | .9297                                | 7.742                    | .1292                    |
| 14.8                | .9672                                | 8.055                    | .1241                    | 20.8                | .9291                                | 7.737                    | .1292                    |
| 14.9                | .9665                                | 8.049                    | .1242                    | 20.9                | .9285                                | 7.732                    | .1293                    |
| 15.0                | .9659                                | 8.044                    | .1243                    | 21.0                | .9279                                | 7.727                    | .1294                    |
| 15.1                | .9652                                | 8.038                    | .1244                    | 21.1                | .9273                                | 7.722                    | .1295                    |
| 15.2                | .9646                                | 8.033                    | .1245                    | 21.2                | .9267                                | 7.717                    | .1296                    |
| 15.3                | .9639                                | 8.027                    | .1246                    | 21.3                | .9260                                | 7.711                    | .1297                    |
| 15.4                | .9632                                | 8.021                    | .1247                    | 21.4                | .9254                                | 7.706                    | .1298                    |
| 15.5                | .9626                                | 8.016                    | .1248                    | 21.5                | .9248                                | 7.701                    | .1299                    |
| 15.6                | .9619                                | 8.011                    | .1248                    | 21.6                | .9242                                | 7.696                    | .1299                    |
| 15.7                | .9613                                | 8.006                    | .1249                    | 21.7                | .9236                                | 7.691                    | .1300                    |
| 15.8                | .9606                                | 8.000                    | .1250                    | 21.8                | .9230                                | 7.686                    | .1301                    |
| 15.9                | .9600                                | 7.995                    | .1251                    | 21.9                | .9224                                | 7.681                    | .1302                    |

TABLE 5.—Specific Gravities, Pound per Gallon, and Gallons per Pound, Corresponding to the Designated Degrees A. P. I.—Continued.

| Degrees<br>A. P. I. | Specific<br>Gravity<br>at 60°/60° F. | Pounds<br>per<br>gallon. | Gallons<br>per<br>pound. | Degrees<br>A. P. I. | Specific<br>Gravity<br>at 60°/60° F. | Pounds<br>per<br>gallon. | Gallons<br>per<br>pound. |
|---------------------|--------------------------------------|--------------------------|--------------------------|---------------------|--------------------------------------|--------------------------|--------------------------|
| 22.0                | .9218                                | 7.676                    | .1303                    | 28.5                | .8844                                | 7.364                    | .1358                    |
| 22.1                | .9212                                | 7.671                    | .1304                    | 28.6                | .8838                                | 7.360                    | .1359                    |
| 22.2                | .9206                                | 7.666                    | .1304                    | 28.7                | .8833                                | 7.355                    | .1360                    |
| 22.3                | .9200                                | 7.661                    | .1305                    | 28.8                | .8827                                | 7.351                    | .1360                    |
| 22.4                | .9194                                | 7.656                    | .1306                    | 28.9                | .8822                                | 7.346                    | .1361                    |
| 22.5                | .9188                                | 7.651                    | .1307                    | 29.0                | .8816                                | 7.341                    | .1362                    |
| 22.6                | .9182                                | 7.646                    | .1308                    | 29.1                | .8811                                | 7.337                    | .1363                    |
| 22.7                | .9176                                | 7.641                    | .1309                    | 29.2                | .8805                                | 7.332                    | .1364                    |
| 22.8                | .9170                                | 7.636                    | .1310                    | 29.3                | .8800                                | 7.328                    | .1365                    |
| 22.9                | .9165                                | 7.632                    | .1310                    | 29.4                | .8794                                | 7.323                    | .1366                    |
| 23.0                | .9159                                | 7.627                    | .1311                    | 29.5                | .8789                                | 7.318                    | .1366                    |
| 23.1                | .9153                                | 7.622                    | .1312                    | 29.6                | .8783                                | 7.314                    | .1367                    |
| 23.2                | .9147                                | 7.617                    | .1313                    | 29.7                | .8778                                | 7.309                    | .1368                    |
| 23.3                | .9141                                | 7.612                    | .1314                    | 29.8                | .8772                                | 7.305                    | .1369                    |
| 23.4                | .9135                                | 7.607                    | .1315                    | 29.9                | .8767                                | 7.300                    | .1370                    |
| 23.5                | .9129                                | 7.602                    | .1315                    | 30.0                | .8762                                | 7.296                    | .1371                    |
| 23.6                | .9123                                | 7.597                    | .1316                    | 30.1                | .8756                                | 7.291                    | .1372                    |
| 23.7                | .9117                                | 7.592                    | .1317                    | 30.2                | .8751                                | 7.287                    | .1372                    |
| 23.8                | .9111                                | 7.587                    | .1318                    | 30.3                | .8745                                | 7.282                    | .1373                    |
| 23.9                | .9106                                | 7.583                    | .1319                    | 30.4                | .8740                                | 7.278                    | .1374                    |
| 24.0                | .9100                                | 7.578                    | .1320                    | 30.5                | .8735                                | 7.273                    | .1375                    |
| 24.1                | .9094                                | 7.573                    | .1320                    | 30.6                | .8729                                | 7.268                    | .1376                    |
| 24.2                | .9088                                | 7.568                    | .1321                    | 30.7                | .8724                                | 7.264                    | .1377                    |
| 24.3                | .9082                                | 7.563                    | .1322                    | 30.8                | .8718                                | 7.259                    | .1378                    |
| 24.4                | .9076                                | 7.558                    | .1323                    | 30.9                | .8713                                | 7.255                    | .1378                    |
| 24.5                | .9071                                | 7.554                    | .1324                    | 31.0                | .8708                                | 7.251                    | .1379                    |
| 24.6                | .9065                                | 7.549                    | .1325                    | 31.1                | .8702                                | 7.246                    | .1380                    |
| 24.7                | .9059                                | 7.544                    | .1326                    | 31.2                | .8697                                | 7.242                    | .1381                    |
| 24.8                | .9053                                | 7.539                    | .1326                    | 31.3                | .8692                                | 7.238                    | .1382                    |
| 24.9                | .9047                                | 7.534                    | .1327                    | 31.4                | .8686                                | 7.233                    | .1383                    |
| 25.0                | .9042                                | 7.529                    | .1328                    | 31.5                | .8681                                | 7.228                    | .1384                    |
| 25.1                | .9036                                | 7.524                    | .1329                    | 31.6                | .8676                                | 7.224                    | .1384                    |
| 25.2                | .9030                                | 7.519                    | .1330                    | 31.7                | .8670                                | 7.219                    | .1385                    |
| 25.3                | .9024                                | 7.514                    | .1331                    | 31.8                | .8665                                | 7.215                    | .1386                    |
| 25.4                | .9018                                | 7.509                    | .1332                    | 31.9                | .8660                                | 7.211                    | .1387                    |
| 25.5                | .9013                                | 7.505                    | .1332                    | 32.0                | .8654                                | 7.206                    | .1388                    |
| 25.6                | .9007                                | 7.500                    | .1333                    | 32.1                | .8649                                | 7.202                    | .1389                    |
| 25.7                | .9001                                | 7.495                    | .1334                    | 32.2                | .8644                                | 7.198                    | .1389                    |
| 25.8                | .8996                                | 7.491                    | .1335                    | 32.3                | .8639                                | 7.193                    | .1390                    |
| 25.9                | .8990                                | 7.486                    | .1336                    | 32.4                | .8633                                | 7.188                    | .1391                    |
| 26.0                | .8984                                | 7.481                    | .1337                    | 32.5                | .8628                                | 7.184                    | .1392                    |
| 26.1                | .8978                                | 7.476                    | .1338                    | 32.6                | .8623                                | 7.180                    | .1393                    |
| 26.2                | .8973                                | 7.472                    | .1338                    | 32.7                | .8618                                | 7.176                    | .1394                    |
| 26.3                | .8967                                | 7.467                    | .1339                    | 32.8                | .8612                                | 7.171                    | .1395                    |
| 26.4                | .8961                                | 7.462                    | .1340                    | 32.9                | .8607                                | 7.167                    | .1395                    |
| 26.5                | .8956                                | 7.458                    | .1341                    | 33.0                | .8602                                | 7.163                    | .1396                    |
| 26.6                | .8950                                | 7.453                    | .1342                    | 33.1                | .8597                                | 7.158                    | .1397                    |
| 26.7                | .8944                                | 7.448                    | .1343                    | 33.2                | .8591                                | 7.153                    | .1398                    |
| 26.8                | .8939                                | 7.443                    | .1344                    | 33.3                | .8586                                | 7.149                    | .1399                    |
| 26.9                | .8933                                | 7.438                    | .1344                    | 33.4                | .8581                                | 7.145                    | .1400                    |
| 27.0                | .8927                                | 7.434                    | .1345                    | 33.5                | .8576                                | 7.141                    | .1400                    |
| 27.1                | .8922                                | 7.429                    | .1346                    | 33.6                | .8571                                | 7.137                    | .1401                    |
| 27.2                | .8916                                | 7.424                    | .1347                    | 33.7                | .8565                                | 7.132                    | .1402                    |
| 27.3                | .8911                                | 7.420                    | .1348                    | 33.8                | .8560                                | 7.128                    | .1403                    |
| 27.4                | .8905                                | 7.415                    | .1349                    | 33.9                | .8555                                | 7.123                    | .1404                    |
| 27.5                | .8899                                | 7.410                    | .1350                    | 34.0                | .8550                                | 7.119                    | .1405                    |
| 27.6                | .8894                                | 7.406                    | .1350                    | 34.1                | .8545                                | 7.115                    | .1405                    |
| 27.7                | .8888                                | 7.401                    | .1351                    | 34.2                | .8540                                | 7.111                    | .1406                    |
| 27.8                | .8883                                | 7.397                    | .1352                    | 34.3                | .8534                                | 7.106                    | .1407                    |
| 27.9                | .8877                                | 7.392                    | .1353                    | 34.4                | .8529                                | 7.102                    | .1408                    |
| 28.0                | .8871                                | 7.387                    | .1354                    | 34.5                | .8524                                | 7.098                    | .1409                    |
| 28.1                | .8866                                | 7.383                    | .1354                    | 34.6                | .8519                                | 7.093                    | .1410                    |
| 28.2                | .8860                                | 7.378                    | .1355                    | 34.7                | .8514                                | 7.089                    | .1411                    |
| 28.3                | .8855                                | 7.373                    | .1356                    | 34.8                | .8509                                | 7.085                    | .1411                    |
| 28.4                | .8849                                | 7.368                    | .1357                    | 34.9                | .8504                                | 7.081                    | .1412                    |



TABLE 5.—Specific Gravities, Pounds per Gallon, and Gallons per Pound, Corresponding to the Designated Degrees A. P. I.—Continued.

| Degrees<br>A. P. I. | Specific<br>gravity at<br>60°/60° F. | Pounds<br>per<br>gallon. | Gallons<br>per<br>pound. | Degrees<br>A. P. I. | Specific<br>gravity at<br>60°/60° F. | Pounds<br>per<br>gallon. | Gallons<br>per<br>pound. |
|---------------------|--------------------------------------|--------------------------|--------------------------|---------------------|--------------------------------------|--------------------------|--------------------------|
| 35.0                | .8498                                | 7.076                    | .1413                    | 41.5                | .8179                                | 6.810                    | .1468                    |
| 35.1                | .8493                                | 7.072                    | .1414                    | 41.6                | .8174                                | 6.806                    | .1469                    |
| 35.2                | .8488                                | 7.068                    | .1415                    | 41.7                | .8170                                | 6.802                    | .1470                    |
| 35.3                | .8483                                | 7.063                    | .1416                    | 41.8                | .8165                                | 6.798                    | .1471                    |
| 35.4                | .8478                                | 7.059                    | .1417                    | 41.9                | .8160                                | 6.794                    | .1472                    |
| 35.5                | .8473                                | 7.055                    | .1417                    | 42.0                | .8155                                | 6.790                    | .1473                    |
| 35.6                | .8468                                | 7.051                    | .1418                    | 42.1                | .8151                                | 6.786                    | .1474                    |
| 35.7                | .8463                                | 7.047                    | .1419                    | 42.2                | .8146                                | 6.782                    | .1474                    |
| 35.8                | .8458                                | 7.042                    | .1420                    | 42.3                | .8142                                | 6.779                    | .1475                    |
| 35.9                | .8453                                | 7.038                    | .1421                    | 42.4                | .8137                                | 6.775                    | .1476                    |
| 36.0                | .8448                                | 7.034                    | .1422                    | 42.5                | .8132                                | 6.771                    | .1477                    |
| 36.1                | .8443                                | 7.030                    | .1422                    | 42.6                | .8128                                | 6.767                    | .1478                    |
| 36.2                | .8438                                | 7.026                    | .1423                    | 42.7                | .8123                                | 6.763                    | .1479                    |
| 36.3                | .8433                                | 7.022                    | .1424                    | 42.8                | .8118                                | 6.759                    | .1480                    |
| 36.4                | .8428                                | 7.018                    | .1425                    | 42.9                | .8114                                | 6.756                    | .1480                    |
| 36.5                | .8423                                | 7.013                    | .1426                    | 43.0                | .8109                                | 6.752                    | .1481                    |
| 36.6                | .8418                                | 7.009                    | .1427                    | 43.1                | .8104                                | 6.748                    | .1482                    |
| 36.7                | .8413                                | 7.005                    | .1428                    | 43.2                | .8100                                | 6.744                    | .1483                    |
| 36.8                | .8408                                | 7.001                    | .1428                    | 43.3                | .8095                                | 6.740                    | .1484                    |
| 36.9                | .8403                                | 6.997                    | .1429                    | 43.4                | .8090                                | 6.736                    | .1485                    |
| 37.0                | .8398                                | 6.993                    | .1430                    | 43.5                | .8086                                | 6.732                    | .1485                    |
| 37.1                | .8393                                | 6.989                    | .1431                    | 43.6                | .8081                                | 6.728                    | .1486                    |
| 37.2                | .8388                                | 6.985                    | .1432                    | 43.7                | .8076                                | 6.724                    | .1487                    |
| 37.3                | .8383                                | 6.980                    | .1433                    | 43.8                | .8072                                | 6.720                    | .1488                    |
| 37.4                | .8378                                | 6.976                    | .1433                    | 43.9                | .8067                                | 6.716                    | .1489                    |
| 37.5                | .8373                                | 6.972                    | .1434                    | 44.0                | .8063                                | 6.713                    | .1490                    |
| 37.6                | .8368                                | 6.968                    | .1435                    | 44.1                | .8058                                | 6.709                    | .1491                    |
| 37.7                | .8363                                | 6.964                    | .1436                    | 44.2                | .8054                                | 6.705                    | .1491                    |
| 37.8                | .8358                                | 6.960                    | .1437                    | 44.3                | .8049                                | 6.701                    | .1492                    |
| 37.9                | .8353                                | 6.955                    | .1438                    | 44.4                | .8044                                | 6.697                    | .1493                    |
| 38.0                | .8348                                | 6.951                    | .1439                    | 44.5                | .8040                                | 6.694                    | .1494                    |
| 38.1                | .8343                                | 6.947                    | .1439                    | 44.6                | .8035                                | 6.690                    | .1495                    |
| 38.2                | .8338                                | 6.943                    | .1440                    | 44.7                | .8031                                | 6.686                    | .1496                    |
| 38.3                | .8333                                | 6.939                    | .1441                    | 44.8                | .8026                                | 6.682                    | .1497                    |
| 38.4                | .8328                                | 6.935                    | .1442                    | 44.9                | .8022                                | 6.679                    | .1497                    |
| 38.5                | .8324                                | 6.930                    | .1443                    | 45.0                | .8017                                | 6.675                    | .1498                    |
| 38.6                | .8319                                | 6.926                    | .1444                    | 45.1                | .8012                                | 6.671                    | .1499                    |
| 38.7                | .8314                                | 6.922                    | .1445                    | 45.2                | .8008                                | 6.667                    | .1500                    |
| 38.8                | .8309                                | 6.918                    | .1446                    | 45.3                | .8003                                | 6.663                    | .1501                    |
| 38.9                | .8304                                | 6.914                    | .1446                    | 45.4                | .7999                                | 6.660                    | .1502                    |
| 39.0                | .8299                                | 6.910                    | .1447                    | 45.5                | .7994                                | 6.656                    | .1502                    |
| 39.1                | .8294                                | 6.906                    | .1448                    | 45.6                | .7990                                | 6.652                    | .1503                    |
| 39.2                | .8289                                | 6.902                    | .1449                    | 45.7                | .7985                                | 6.648                    | .1504                    |
| 39.3                | .8285                                | 6.898                    | .1450                    | 45.8                | .7981                                | 6.645                    | .1505                    |
| 39.4                | .8280                                | 6.894                    | .1451                    | 45.9                | .7976                                | 6.641                    | .1506                    |
| 39.5                | .8275                                | 6.890                    | .1451                    | 46.0                | .7972                                | 6.637                    | .1507                    |
| 39.6                | .8270                                | 6.886                    | .1452                    | 46.1                | .7967                                | 6.633                    | .1508                    |
| 39.7                | .8265                                | 6.882                    | .1453                    | 46.2                | .7963                                | 6.630                    | .1508                    |
| 39.8                | .8260                                | 6.878                    | .1454                    | 46.3                | .7958                                | 6.626                    | .1509                    |
| 39.9                | .8256                                | 6.874                    | .1455                    | 46.4                | .7954                                | 6.622                    | .1510                    |
| 40.0                | .8251                                | 6.870                    | .1456                    | 46.5                | .7949                                | 6.618                    | .1511                    |
| 40.1                | .8246                                | 6.866                    | .1456                    | 46.6                | .7945                                | 6.615                    | .1512                    |
| 40.2                | .8241                                | 6.862                    | .1457                    | 46.7                | .7941                                | 6.611                    | .1513                    |
| 40.3                | .8236                                | 6.858                    | .1458                    | 46.8                | .7936                                | 6.607                    | .1514                    |
| 40.4                | .8232                                | 6.854                    | .1459                    | 46.9                | .7932                                | 6.604                    | .1514                    |
| 40.5                | .8227                                | 6.850                    | .1460                    | 47.0                | .7927                                | 6.600                    | .1515                    |
| 40.6                | .8222                                | 6.846                    | .1461                    | 47.1                | .7923                                | 6.596                    | .1516                    |
| 40.7                | .8217                                | 6.842                    | .1462                    | 47.2                | .7918                                | 6.592                    | .1517                    |
| 40.8                | .8212                                | 6.838                    | .1462                    | 47.3                | .7914                                | 6.589                    | .1518                    |
| 40.9                | .8208                                | 6.834                    | .1463                    | 47.4                | .7909                                | 6.585                    | .1519                    |
| 41.0                | .8203                                | 6.830                    | .1464                    | 47.5                | .7905                                | 6.582                    | .1519                    |
| 41.1                | .8198                                | 6.826                    | .1465                    | 47.6                | .7901                                | 6.578                    | .1520                    |
| 41.2                | .8193                                | 6.822                    | .1466                    | 47.7                | .7896                                | 6.574                    | .1521                    |
| 41.3                | .8189                                | 6.818                    | .1467                    | 47.8                | .7892                                | 6.571                    | .1522                    |
| 41.4                | .8184                                | 6.814                    | .1468                    | 47.9                | .7887                                | 6.567                    | .1523                    |

TABLE 5.—Specific Gravities, Pounds per Gallon, and Gallons per Pound, Corresponding to the Designated Degrees A. P. I.—Continued.

| Degrees<br>A. P. I. | Specific<br>gravity at<br>60°/60° F. | Pounds<br>per<br>gallon. | Gallons<br>per<br>pound. | Degrees<br>A. P. I. | Specific<br>gravity at<br>60°/60° F. | Pounds<br>per<br>gallon. | Gallons<br>per<br>pound. |
|---------------------|--------------------------------------|--------------------------|--------------------------|---------------------|--------------------------------------|--------------------------|--------------------------|
| 48.0                | .7883                                | 6.563                    | .1524                    | 54.5                | .7608                                | 6.334                    | .1579                    |
| 48.1                | .7879                                | 6.560                    | .1524                    | 54.6                | .7603                                | 6.330                    | .1580                    |
| 48.2                | .7874                                | 6.556                    | .1525                    | 54.7                | .7599                                | 6.326                    | .1581                    |
| 48.3                | .7870                                | 6.552                    | .1526                    | 54.8                | .7595                                | 6.323                    | .1582                    |
| 48.4                | .7865                                | 6.548                    | .1527                    | 54.9                | .7591                                | 6.320                    | .1582                    |
| 48.5                | .7861                                | 6.545                    | .1528                    | 55.0                | .7587                                | 6.316                    | .1583                    |
| 48.6                | .7857                                | 6.541                    | .1529                    | 55.1                | .7583                                | 6.313                    | .1584                    |
| 48.7                | .7852                                | 6.537                    | .1530                    | 55.2                | .7579                                | 6.310                    | .1585                    |
| 48.8                | .7848                                | 6.534                    | .1530                    | 55.3                | .7575                                | 6.306                    | .1586                    |
| 48.9                | .7844                                | 6.530                    | .1531                    | 55.4                | .7571                                | 6.303                    | .1587                    |
| 49.0                | .7839                                | 6.526                    | .1532                    | 55.5                | .7567                                | 6.300                    | .1587                    |
| 49.1                | .7835                                | 6.523                    | .1533                    | 55.6                | .7563                                | 6.296                    | .1588                    |
| 49.2                | .7831                                | 6.520                    | .1534                    | 55.7                | .7559                                | 6.293                    | .1589                    |
| 49.3                | .7826                                | 6.516                    | .1535                    | 55.8                | .7555                                | 6.290                    | .1590                    |
| 49.4                | .7822                                | 6.512                    | .1536                    | 55.9                | .7551                                | 6.287                    | .1591                    |
| 49.5                | .7818                                | 6.509                    | .1536                    | 56.0                | .7547                                | 6.283                    | .1592                    |
| 49.6                | .7813                                | 6.505                    | .1537                    | 56.1                | .7543                                | 6.280                    | .1592                    |
| 49.7                | .7809                                | 6.501                    | .1538                    | 56.2                | .7539                                | 6.276                    | .1593                    |
| 49.8                | .7805                                | 6.498                    | .1539                    | 56.3                | .7535                                | 6.273                    | .1594                    |
| 49.9                | .7800                                | 6.494                    | .1540                    | 56.4                | .7531                                | 6.270                    | .1595                    |
| 50.0                | .7796                                | 6.490                    | .1541                    | 56.5                | .7527                                | 6.266                    | .1596                    |
| 50.1                | .7792                                | 6.487                    | .1542                    | 56.6                | .7523                                | 6.263                    | .1597                    |
| 50.2                | .7788                                | 6.484                    | .1542                    | 56.7                | .7519                                | 6.259                    | .1598                    |
| 50.3                | .7783                                | 6.480                    | .1543                    | 56.8                | .7515                                | 6.256                    | .1598                    |
| 50.4                | .7779                                | 6.476                    | .1544                    | 56.9                | .7511                                | 6.253                    | .1599                    |
| 50.5                | .7775                                | 6.473                    | .1545                    | 57.0                | .7507                                | 6.249                    | .1600                    |
| 50.6                | .7770                                | 6.469                    | .1546                    | 57.1                | .7503                                | 6.246                    | .1601                    |
| 50.7                | .7766                                | 6.466                    | .1547                    | 57.2                | .7499                                | 6.243                    | .1602                    |
| 50.8                | .7762                                | 6.462                    | .1548                    | 57.3                | .7495                                | 6.240                    | .1603                    |
| 50.9                | .7758                                | 6.459                    | .1548                    | 57.4                | .7491                                | 6.236                    | .1604                    |
| 51.0                | .7753                                | 6.455                    | .1549                    | 57.5                | .7487                                | 6.233                    | .1604                    |
| 51.1                | .7749                                | 6.451                    | .1550                    | 57.6                | .7483                                | 6.229                    | .1605                    |
| 51.2                | .7745                                | 6.448                    | .1551                    | 57.7                | .7479                                | 6.226                    | .1606                    |
| 51.3                | .7741                                | 6.445                    | .1552                    | 57.8                | .7475                                | 6.223                    | .1607                    |
| 51.4                | .7736                                | 6.441                    | .1553                    | 57.9                | .7471                                | 6.219                    | .1608                    |
| 51.5                | .7732                                | 6.437                    | .1554                    | 58.0                | .7467                                | 6.216                    | .1609                    |
| 51.6                | .7728                                | 6.434                    | .1554                    | 58.1                | .7463                                | 6.213                    | .1610                    |
| 51.7                | .7724                                | 6.430                    | .1555                    | 58.2                | .7459                                | 6.209                    | .1611                    |
| 51.8                | .7720                                | 6.427                    | .1556                    | 58.3                | .7455                                | 6.206                    | .1611                    |
| 51.9                | .7715                                | 6.423                    | .1557                    | 58.4                | .7451                                | 6.203                    | .1612                    |
| 52.0                | .7711                                | 6.420                    | .1558                    | 58.5                | .7447                                | 6.199                    | .1613                    |
| 52.1                | .7707                                | 6.416                    | .1559                    | 58.6                | .7443                                | 6.196                    | .1614                    |
| 52.2                | .7703                                | 6.413                    | .1559                    | 58.7                | .7440                                | 6.193                    | .1615                    |
| 52.3                | .7699                                | 6.410                    | .1560                    | 58.8                | .7436                                | 6.190                    | .1616                    |
| 52.4                | .7694                                | 6.406                    | .1561                    | 58.9                | .7432                                | 6.187                    | .1616                    |
| 52.5                | .7690                                | 6.402                    | .1562                    | 59.0                | .7428                                | 6.184                    | .1617                    |
| 52.6                | .7686                                | 6.399                    | .1563                    | 59.1                | .7424                                | 6.180                    | .1618                    |
| 52.7                | .7682                                | 6.396                    | .1563                    | 59.2                | .7420                                | 6.177                    | .1619                    |
| 52.8                | .7678                                | 6.392                    | .1564                    | 59.3                | .7416                                | 6.174                    | .1620                    |
| 52.9                | .7674                                | 6.389                    | .1565                    | 59.4                | .7412                                | 6.170                    | .1621                    |
| 53.0                | .7669                                | 6.385                    | .1566                    | 59.5                | .7408                                | 6.167                    | .1622                    |
| 53.1                | .7665                                | 6.381                    | .1567                    | 59.6                | .7405                                | 6.164                    | .1622                    |
| 53.2                | .7661                                | 6.378                    | .1568                    | 59.7                | .7401                                | 6.161                    | .1623                    |
| 53.3                | .7657                                | 6.375                    | .1569                    | 59.8                | .7397                                | 6.158                    | .1624                    |
| 53.4                | .7653                                | 6.371                    | .1570                    | 59.9                | .7393                                | 6.154                    | .1625                    |
| 53.5                | .7649                                | 6.368                    | .1570                    | 60.0                | .7389                                | 6.151                    | .1626                    |
| 53.6                | .7645                                | 6.365                    | .1571                    | 60.1                | .7385                                | 6.148                    | .1627                    |
| 53.7                | .7640                                | 6.361                    | .1572                    | 60.2                | .7381                                | 6.144                    | .1628                    |
| 53.8                | .7636                                | 6.357                    | .1573                    | 60.3                | .7377                                | 6.141                    | .1628                    |
| 53.9                | .7632                                | 6.354                    | .1574                    | 60.4                | .7374                                | 6.138                    | .1629                    |
| 54.0                | .7628                                | 6.350                    | .1575                    | 60.5                | .7370                                | 6.135                    | .1630                    |
| 54.1                | .7624                                | 6.347                    | .1576                    | 60.6                | .7366                                | 6.132                    | .1631                    |
| 54.2                | .7620                                | 6.344                    | .1576                    | 60.7                | .7362                                | 6.129                    | .1632                    |
| 54.3                | .7616                                | 6.340                    | .1577                    | 60.8                | .7358                                | 6.125                    | .1633                    |
| 54.4                | .7612                                | 6.337                    | .1578                    | 60.9                | .7354                                | 6.122                    | .1633                    |

TABLE 5.—Specific Gravities, Pounds per Gallon, and Gallons per Pound, Corresponding to the Designated Degrees A. P. I.—Continued.

| Degrees<br>A. P. I. | Specific<br>gravity at<br>60°/60° F. | Pounds<br>per<br>gallon. | Gallons<br>per<br>pound. | Degrees<br>A. P. I. | Specific<br>gravity at<br>60°/60° F. | Pounds<br>per<br>gallon. | Gallons<br>per<br>pound. |
|---------------------|--------------------------------------|--------------------------|--------------------------|---------------------|--------------------------------------|--------------------------|--------------------------|
| 61.0                | 0.7351                               | 6.119                    | 0.1634                   | 67.5                | 0.7111                               | 5.919                    | 0.1689                   |
| 61.1                | .7347                                | 6.116                    | .1635                    | 67.6                | .7107                                | 5.916                    | .1690                    |
| 61.2                | .7343                                | 6.113                    | .1636                    | 67.7                | .7103                                | 5.913                    | .1691                    |
| 61.3                | .7339                                | 6.109                    | .1637                    | 67.8                | .7100                                | 5.910                    | .1692                    |
| 61.4                | .7335                                | 6.106                    | .1638                    | 67.9                | .7096                                | 5.907                    | .1693                    |
| 61.5                | .7332                                | 6.103                    | .1639                    | 68.0                | .7093                                | 5.904                    | .1694                    |
| 61.6                | .7328                                | 6.100                    | .1639                    | 68.1                | .7089                                | 5.901                    | .1695                    |
| 61.7                | .7324                                | 6.097                    | .1640                    | 68.2                | .7086                                | 5.898                    | .1695                    |
| 61.8                | .7320                                | 6.094                    | .1641                    | 68.3                | .7082                                | 5.895                    | .1696                    |
| 61.9                | .7316                                | 6.090                    | .1642                    | 68.4                | .7079                                | 5.892                    | .1697                    |
| 62.0                | .7313                                | 6.087                    | .1643                    | 68.5                | .7075                                | 5.889                    | .1698                    |
| 62.1                | .7309                                | 6.084                    | .1644                    | 68.6                | .7071                                | 5.886                    | .1699                    |
| 62.2                | .7305                                | 6.081                    | .1644                    | 68.7                | .7068                                | 5.883                    | .1700                    |
| 62.3                | .7301                                | 6.078                    | .1645                    | 68.8                | .7064                                | 5.880                    | .1701                    |
| 62.4                | .7298                                | 6.075                    | .1646                    | 68.9                | .7061                                | 5.877                    | .1702                    |
| 62.5                | .7294                                | 6.072                    | .1647                    | 69.0                | .7057                                | 5.874                    | .1702                    |
| 62.6                | .7290                                | 6.068                    | .1648                    | 69.1                | .7054                                | 5.871                    | .1703                    |
| 62.7                | .7286                                | 6.065                    | .1649                    | 69.2                | .7050                                | 5.868                    | .1704                    |
| 62.8                | .7283                                | 6.062                    | .1650                    | 69.3                | .7047                                | 5.866                    | .1705                    |
| 62.9                | .7279                                | 6.059                    | .1650                    | 69.4                | .7043                                | 5.863                    | .1706                    |
| 63.0                | .7275                                | 6.056                    | .1651                    | 69.5                | .7040                                | 5.860                    | .1706                    |
| 63.1                | .7271                                | 6.053                    | .1652                    | 69.6                | .7036                                | 5.857                    | .1707                    |
| 63.2                | .7268                                | 6.050                    | .1653                    | 69.7                | .7033                                | 5.854                    | .1708                    |
| 63.3                | .7264                                | 6.047                    | .1654                    | 69.8                | .7029                                | 5.851                    | .1709                    |
| 63.4                | .7260                                | 6.044                    | .1655                    | 69.9                | .7026                                | 5.848                    | .1710                    |
| 63.5                | .7256                                | 6.040                    | .1656                    | 70.0                | .7022                                | 5.845                    | .1711                    |
| 63.6                | .7253                                | 6.037                    | .1656                    | 70.1                | .7019                                | 5.842                    | .1712                    |
| 63.7                | .7249                                | 6.034                    | .1657                    | 70.2                | .7015                                | 5.839                    | .1713                    |
| 63.8                | .7245                                | 6.031                    | .1658                    | 70.3                | .7012                                | 5.836                    | .1714                    |
| 63.9                | .7242                                | 6.028                    | .1659                    | 70.4                | .7008                                | 5.833                    | .1714                    |
| 64.0                | .7238                                | 6.025                    | .1660                    | 70.5                | .7005                                | 5.831                    | .1715                    |
| 64.1                | .7234                                | 6.022                    | .1661                    | 70.6                | .7001                                | 5.828                    | .1716                    |
| 64.2                | .7230                                | 6.019                    | .1661                    | 70.7                | .6998                                | 5.825                    | .1717                    |
| 64.3                | .7227                                | 6.016                    | .1662                    | 70.8                | .6995                                | 5.823                    | .1717                    |
| 64.4                | .7223                                | 6.013                    | .1663                    | 70.9                | .6991                                | 5.820                    | .1718                    |
| 64.5                | .7219                                | 6.010                    | .1664                    | 71.0                | .6988                                | 5.817                    | .1719                    |
| 64.6                | .7216                                | 6.007                    | .1665                    | 71.1                | .6984                                | 5.814                    | .1720                    |
| 64.7                | .7212                                | 6.004                    | .1666                    | 71.2                | .6981                                | 5.811                    | .1721                    |
| 64.8                | .7208                                | 6.000                    | .1667                    | 71.3                | .6977                                | 5.808                    | .1722                    |
| 64.9                | .7205                                | 5.997                    | .1668                    | 71.4                | .6974                                | 5.805                    | .1723                    |
| 65.0                | .7201                                | 5.994                    | .1668                    | 71.5                | .6970                                | 5.802                    | .1724                    |
| 65.1                | .7197                                | 5.991                    | .1669                    | 71.6                | .6967                                | 5.799                    | .1724                    |
| 65.2                | .7194                                | 5.988                    | .1670                    | 71.7                | .6964                                | 5.796                    | .1725                    |
| 65.3                | .7190                                | 5.985                    | .1671                    | 71.8                | .6960                                | 5.793                    | .1726                    |
| 65.4                | .7186                                | 5.982                    | .1672                    | 71.9                | .6957                                | 5.791                    | .1727                    |
| 65.5                | .7183                                | 5.979                    | .1673                    | 72.0                | .6953                                | 5.788                    | .1728                    |
| 65.6                | .7179                                | 5.976                    | .1673                    | 72.1                | .6950                                | 5.785                    | .1729                    |
| 65.7                | .7175                                | 5.973                    | .1674                    | 72.2                | .6946                                | 5.782                    | .1730                    |
| 65.8                | .7172                                | 5.970                    | .1675                    | 72.3                | .6943                                | 5.779                    | .1730                    |
| 65.9                | .7168                                | 5.967                    | .1676                    | 72.4                | .6940                                | 5.776                    | .1731                    |
| 66.0                | .7165                                | 5.964                    | .1677                    | 72.5                | .6936                                | 5.773                    | .1732                    |
| 66.1                | .7161                                | 5.961                    | .1678                    | 72.6                | .6933                                | 5.771                    | .1733                    |
| 66.2                | .7157                                | 5.958                    | .1678                    | 72.7                | .6929                                | 5.768                    | .1734                    |
| 66.3                | .7154                                | 5.955                    | .1679                    | 72.8                | .6926                                | 5.765                    | .1735                    |
| 66.4                | .7150                                | 5.952                    | .1680                    | 72.9                | .6923                                | 5.762                    | .1736                    |
| 66.5                | .7146                                | 5.949                    | .1681                    | 73.0                | .6919                                | 5.759                    | .1736                    |
| 66.6                | .7143                                | 5.946                    | .1682                    | 73.1                | .6916                                | 5.757                    | .1737                    |
| 66.7                | .7139                                | 5.943                    | .1683                    | 73.2                | .6913                                | 5.754                    | .1738                    |
| 66.8                | .7136                                | 5.940                    | .1684                    | 73.3                | .6909                                | 5.751                    | .1739                    |
| 66.9                | .7132                                | 5.937                    | .1684                    | 73.4                | .6906                                | 5.748                    | .1740                    |
| 67.0                | .7128                                | 5.934                    | .1685                    | 73.5                | .6902                                | 5.745                    | .1741                    |
| 67.1                | .7125                                | 5.931                    | .1686                    | 73.6                | .6899                                | 5.743                    | .1741                    |
| 67.2                | .7121                                | 5.928                    | .1687                    | 73.7                | .6896                                | 5.740                    | .1742                    |
| 67.3                | .7118                                | 5.925                    | .1688                    | 73.8                | .6892                                | 5.737                    | .1743                    |
| 67.4                | .7114                                | 5.922                    | .1689                    | 73.9                | .6889                                | 5.734                    | .1744                    |

TABLE 5.—Specific Gravities, Pounds per Gallon, and Gallons per Pound, Corresponding to the Designated Degrees A. P. I.—Continued.

| Degrees<br>A. P. I. | Specific<br>gravity at<br>60°/60° F. | Pounds<br>per<br>gallon. | Gallons<br>per<br>pound. | Degrees<br>A. P. I. | Specific<br>gravity at<br>60°/60° F. | Pounds<br>per<br>gallon. | Gallons<br>per<br>pound. |
|---------------------|--------------------------------------|--------------------------|--------------------------|---------------------|--------------------------------------|--------------------------|--------------------------|
| 74.0                | .6886                                | 5.731                    | .1745                    | 80.5                | .6675                                | 5.556                    | .1800                    |
| 74.1                | .6882                                | 5.728                    | .1746                    | 80.6                | .6671                                | 5.553                    | .1801                    |
| 74.2                | .6879                                | 5.726                    | .1746                    | 80.7                | .6668                                | 5.550                    | .1802                    |
| 74.3                | .6876                                | 5.723                    | .1747                    | 80.8                | .6665                                | 5.548                    | .1802                    |
| 74.4                | .6872                                | 5.720                    | .1748                    | 80.9                | .6662                                | 5.545                    | .1803                    |
| 74.5                | .6869                                | 5.718                    | .1749                    | 81.0                | .6659                                | 5.542                    | .1804                    |
| 74.6                | .6866                                | 5.715                    | .1750                    | 81.1                | .6656                                | 5.540                    | .1805                    |
| 74.7                | .6862                                | 5.712                    | .1751                    | 81.2                | .6653                                | 5.537                    | .1806                    |
| 74.8                | .6859                                | 5.709                    | .1752                    | 81.3                | .6649                                | 5.534                    | .1807                    |
| 74.9                | .6856                                | 5.706                    | .1753                    | 81.4                | .6646                                | 5.532                    | .1808                    |
| 75.0                | .6852                                | 5.703                    | .1753                    | 81.5                | .6643                                | 5.529                    | .1809                    |
| 75.1                | .6849                                | 5.701                    | .1754                    | 81.6                | .6640                                | 5.526                    | .1810                    |
| 75.2                | .6846                                | 5.698                    | .1755                    | 81.7                | .6637                                | 5.524                    | .1810                    |
| 75.3                | .6842                                | 5.695                    | .1756                    | 81.8                | .6634                                | 5.522                    | .1811                    |
| 75.4                | .6839                                | 5.693                    | .1757                    | 81.9                | .6631                                | 5.519                    | .1812                    |
| 75.5                | .6836                                | 5.690                    | .1757                    | 82.0                | .6628                                | 5.516                    | .1813                    |
| 75.6                | .6832                                | 5.687                    | .1758                    | 82.1                | .6625                                | 5.514                    | .1814                    |
| 75.7                | .6829                                | 5.685                    | .1759                    | 82.2                | .6621                                | 5.511                    | .1815                    |
| 75.8                | .6826                                | 5.682                    | .1760                    | 82.3                | .6618                                | 5.508                    | .1816                    |
| 75.9                | .6823                                | 5.679                    | .1761                    | 82.4                | .6615                                | 5.506                    | .1816                    |
| 76.0                | .6819                                | 5.676                    | .1762                    | 82.5                | .6612                                | 5.503                    | .1817                    |
| 76.1                | .6816                                | 5.673                    | .1763                    | 82.6                | .6609                                | 5.501                    | .1818                    |
| 76.2                | .6813                                | 5.671                    | .1763                    | 82.7                | .6606                                | 5.498                    | .1819                    |
| 76.3                | .6809                                | 5.668                    | .1764                    | 82.8                | .6603                                | 5.496                    | .1820                    |
| 76.4                | .6806                                | 5.665                    | .1765                    | 82.9                | .6600                                | 5.493                    | .1820                    |
| 76.5                | .6803                                | 5.662                    | .1766                    | 83.0                | .6597                                | 5.491                    | .1821                    |
| 76.6                | .6800                                | 5.660                    | .1767                    | 83.1                | .6594                                | 5.489                    | .1822                    |
| 76.7                | .6796                                | 5.657                    | .1768                    | 83.2                | .6591                                | 5.486                    | .1823                    |
| 76.8                | .6793                                | 5.654                    | .1769                    | 83.3                | .6588                                | 5.483                    | .1824                    |
| 76.9                | .6790                                | 5.652                    | .1769                    | 83.4                | .6584                                | 5.480                    | .1825                    |
| 77.0                | .6787                                | 5.649                    | .1770                    | 83.5                | .6581                                | 5.477                    | .1826                    |
| 77.1                | .6783                                | 5.646                    | .1771                    | 83.6                | .6578                                | 5.475                    | .1826                    |
| 77.2                | .6780                                | 5.643                    | .1772                    | 83.7                | .6575                                | 5.472                    | .1827                    |
| 77.3                | .6777                                | 5.641                    | .1773                    | 83.8                | .6572                                | 5.470                    | .1828                    |
| 77.4                | .6774                                | 5.638                    | .1774                    | 83.9                | .6569                                | 5.467                    | .1829                    |
| 77.5                | .6770                                | 5.635                    | .1775                    | 84.0                | .6566                                | 5.465                    | .1830                    |
| 77.6                | .6767                                | 5.632                    | .1776                    | 84.1                | .6563                                | 5.462                    | .1831                    |
| 77.7                | .6764                                | 5.630                    | .1776                    | 84.2                | .6560                                | 5.460                    | .1832                    |
| 77.8                | .6761                                | 5.627                    | .1777                    | 84.3                | .6557                                | 5.458                    | .1832                    |
| 77.9                | .6757                                | 5.624                    | .1778                    | 84.4                | .6554                                | 5.455                    | .1833                    |
| 78.0                | .6754                                | 5.622                    | .1779                    | 84.5                | .6551                                | 5.453                    | .1834                    |
| 78.1                | .6751                                | 5.619                    | .1780                    | 84.6                | .6548                                | 5.450                    | .1835                    |
| 78.2                | .6748                                | 5.617                    | .1780                    | 84.7                | .6545                                | 5.448                    | .1836                    |
| 78.3                | .6745                                | 5.614                    | .1781                    | 84.8                | .6542                                | 5.445                    | .1837                    |
| 78.4                | .6741                                | 5.611                    | .1782                    | 84.9                | .6539                                | 5.443                    | .1837                    |
| 78.5                | .6738                                | 5.608                    | .1783                    | 85.0                | .6536                                | 5.440                    | .1838                    |
| 78.6                | .6735                                | 5.606                    | .1784                    | 85.1                | .6533                                | 5.437                    | .1839                    |
| 78.7                | .6732                                | 5.603                    | .1785                    | 85.2                | .6530                                | 5.435                    | .1840                    |
| 78.8                | .6728                                | 5.600                    | .1786                    | 85.3                | .6527                                | 5.432                    | .1841                    |
| 78.9                | .6725                                | 5.598                    | .1786                    | 85.4                | .6524                                | 5.430                    | .1842                    |
| 79.0                | .6722                                | 5.595                    | .1787                    | 85.5                | .6521                                | 5.427                    | .1843                    |
| 79.1                | .6719                                | 5.592                    | .1788                    | 85.6                | .6518                                | 5.425                    | .1843                    |
| 79.2                | .6716                                | 5.590                    | .1789                    | 85.7                | .6515                                | 5.422                    | .1844                    |
| 79.3                | .6713                                | 5.587                    | .1790                    | 85.8                | .6512                                | 5.420                    | .1845                    |
| 79.4                | .6709                                | 5.584                    | .1791                    | 85.9                | .6509                                | 5.417                    | .1846                    |
| 79.5                | .6706                                | 5.582                    | .1791                    | 86.0                | .6506                                | 5.415                    | .1847                    |
| 79.6                | .6703                                | 5.579                    | .1792                    | 86.1                | .6503                                | 5.412                    | .1848                    |
| 79.7                | .6700                                | 5.577                    | .1793                    | 86.2                | .6500                                | 5.410                    | .1848                    |
| 79.8                | .6697                                | 5.574                    | .1794                    | 86.3                | .6497                                | 5.407                    | .1849                    |
| 79.9                | .6693                                | 5.571                    | .1795                    | 86.4                | .6494                                | 5.405                    | .1850                    |
| 80.0                | .6690                                | 5.568                    | .1796                    | 86.5                | .6491                                | 5.402                    | .1851                    |
| 80.1                | .6687                                | 5.566                    | .1797                    | 86.6                | .6488                                | 5.400                    | .1852                    |
| 80.2                | .6684                                | 5.563                    | .1798                    | 86.7                | .6485                                | 5.397                    | .1853                    |
| 80.3                | .6681                                | 5.561                    | .1798                    | 86.8                | .6482                                | 5.395                    | .1854                    |
| 80.4                | .6678                                | 5.558                    | .1799                    | 86.9                | .6479                                | 5.392                    | .1855                    |



TABLE 5.—Specific Gravities, Pounds per Gallon, and Gallons per Pound, Corresponding to the Designated Degrees A. P. I.—Continued.

| Degrees<br>A. P. I. | Specific<br>gravity at<br>60°/60° F. | Pounds<br>per<br>gallon. | Gallons<br>per<br>pound. | Degrees<br>A. P. I. | Specific<br>gravity at<br>60°/60° F. | Pounds<br>per<br>gallon. | Gallons<br>per<br>pound. |
|---------------------|--------------------------------------|--------------------------|--------------------------|---------------------|--------------------------------------|--------------------------|--------------------------|
| 87.0                | 0.6476                               | 5.390                    | 0.1855                   | 93.5                | 0.6289                               | 5.234                    | 0.1911                   |
| 87.1                | .6473                                | 5.387                    | .1856                    | 93.6                | .6286                                | 5.232                    | .1911                    |
| 87.2                | .6470                                | 5.385                    | .1857                    | 93.7                | .6283                                | 5.229                    | .1912                    |
| 87.3                | .6467                                | 5.382                    | .1858                    | 93.8                | .6281                                | 5.227                    | .1913                    |
| 87.4                | .6464                                | 5.380                    | .1859                    | 93.9                | .6278                                | 5.225                    | .1914                    |
| 87.5                | .6461                                | 5.377                    | .1860                    | 94.0                | .6275                                | 5.222                    | .1915                    |
| 87.6                | .6458                                | 5.375                    | .1861                    | 94.1                | .6272                                | 5.220                    | .1916                    |
| 87.7                | .6455                                | 5.372                    | .1862                    | 94.2                | .6269                                | 5.217                    | .1917                    |
| 87.8                | .6452                                | 5.370                    | .1862                    | 94.3                | .6267                                | 5.215                    | .1918                    |
| 87.9                | .6449                                | 5.367                    | .1863                    | 94.4                | .6264                                | 5.213                    | .1918                    |
| 88.0                | .6446                                | 5.365                    | .1864                    | 94.5                | .6261                                | 5.210                    | .1919                    |
| 88.1                | .6444                                | 5.363                    | .1865                    | 94.6                | .6258                                | 5.208                    | .1920                    |
| 88.2                | .6441                                | 5.361                    | .1865                    | 94.7                | .6256                                | 5.206                    | .1921                    |
| 88.3                | .6438                                | 5.358                    | .1866                    | 94.8                | .6253                                | 5.204                    | .1922                    |
| 88.4                | .6435                                | 5.356                    | .1867                    | 94.9                | .6250                                | 5.201                    | .1923                    |
| 88.5                | .6432                                | 5.353                    | .1868                    | 95.0                | .6247                                | 5.199                    | .1924                    |
| 88.6                | .6429                                | 5.351                    | .1869                    | 95.1                | .6244                                | 5.196                    | .1925                    |
| 88.7                | .6426                                | 5.348                    | .1870                    | 95.2                | .6242                                | 5.194                    | .1925                    |
| 88.8                | .6423                                | 5.346                    | .1871                    | 95.3                | .6239                                | 5.192                    | .1926                    |
| 88.9                | .6420                                | 5.343                    | .1872                    | 95.4                | .6236                                | 5.190                    | .1927                    |
| 89.0                | .6417                                | 5.341                    | .1872                    | 95.5                | .6233                                | 5.187                    | .1928                    |
| 89.1                | .6414                                | 5.338                    | .1873                    | 95.6                | .6231                                | 5.185                    | .1929                    |
| 89.2                | .6411                                | 5.336                    | .1874                    | 95.7                | .6228                                | 5.183                    | .1929                    |
| 89.3                | .6409                                | 5.334                    | .1875                    | 95.8                | .6225                                | 5.180                    | .1930                    |
| 89.4                | .6406                                | 5.331                    | .1876                    | 95.9                | .6223                                | 5.179                    | .1931                    |
| 89.5                | .6403                                | 5.329                    | .1877                    | 96.0                | .6220                                | 5.176                    | .1932                    |
| 89.6                | .6400                                | 5.326                    | .1878                    | 96.1                | .6217                                | 5.174                    | .1933                    |
| 89.7                | .6397                                | 5.324                    | .1878                    | 96.2                | .6214                                | 5.172                    | .1933                    |
| 89.8                | .6394                                | 5.321                    | .1879                    | 96.3                | .6212                                | 5.170                    | .1934                    |
| 89.9                | .6391                                | 5.319                    | .1880                    | 96.4                | .6209                                | 5.167                    | .1935                    |
| 90.0                | .6388                                | 5.316                    | .1881                    | 96.5                | .6206                                | 5.164                    | .1935                    |
| 90.1                | .6385                                | 5.314                    | .1882                    | 96.6                | .6203                                | 5.162                    | .1937                    |
| 90.2                | .6382                                | 5.312                    | .1883                    | 96.7                | .6201                                | 5.160                    | .1938                    |
| 90.3                | .6380                                | 5.310                    | .1883                    | 96.8                | .6198                                | 5.158                    | .1939                    |
| 90.4                | .6377                                | 5.307                    | .1884                    | 96.9                | .6195                                | 5.156                    | .1939                    |
| 90.5                | .6374                                | 5.305                    | .1885                    | 97.0                | .6193                                | 5.154                    | .1940                    |
| 90.6                | .6371                                | 5.302                    | .1886                    | 97.1                | .6190                                | 5.151                    | .1941                    |
| 90.7                | .6368                                | 5.300                    | .1887                    | 97.2                | .6187                                | 5.149                    | .1942                    |
| 90.8                | .6365                                | 5.297                    | .1888                    | 97.3                | .6184                                | 5.146                    | .1943                    |
| 90.9                | .6362                                | 5.295                    | .1889                    | 97.4                | .6182                                | 5.144                    | .1944                    |
| 91.0                | .6360                                | 5.293                    | .1889                    | 97.5                | .6179                                | 5.142                    | .1945                    |
| 91.1                | .6357                                | 5.291                    | .1890                    | 97.6                | .6176                                | 5.140                    | .1946                    |
| 91.2                | .6354                                | 5.288                    | .1891                    | 97.7                | .6174                                | 5.138                    | .1946                    |
| 91.3                | .6351                                | 5.286                    | .1892                    | 97.8                | .6171                                | 5.136                    | .1947                    |
| 91.4                | .6348                                | 5.283                    | .1893                    | 97.9                | .6168                                | 5.133                    | .1948                    |
| 91.5                | .6345                                | 5.281                    | .1894                    | 98.0                | .6166                                | 5.131                    | .1949                    |
| 91.6                | .6342                                | 5.278                    | .1895                    | 98.1                | .6163                                | 5.129                    | .1950                    |
| 91.7                | .6340                                | 5.276                    | .1895                    | 98.2                | .6160                                | 5.126                    | .1951                    |
| 91.8                | .6337                                | 5.274                    | .1896                    | 98.3                | .6158                                | 5.124                    | .1952                    |
| 91.9                | .6334                                | 5.271                    | .1897                    | 98.4                | .6155                                | 5.122                    | .1952                    |
| 92.0                | .6331                                | 5.269                    | .1898                    | 98.5                | .6152                                | 5.120                    | .1953                    |
| 92.1                | .6328                                | 5.266                    | .1899                    | 98.6                | .6150                                | 5.118                    | .1954                    |
| 92.2                | .6325                                | 5.264                    | .1900                    | 98.7                | .6147                                | 5.116                    | .1955                    |
| 92.3                | .6323                                | 5.262                    | .1900                    | 98.8                | .6144                                | 5.113                    | .1956                    |
| 92.4                | .6320                                | 5.260                    | .1901                    | 98.9                | .6141                                | 5.111                    | .1957                    |
| 92.5                | .6317                                | 5.257                    | .1902                    | 99.0                | .6139                                | 5.109                    | .1957                    |
| 92.6                | .6314                                | 5.254                    | .1903                    | 99.1                | .6136                                | 5.107                    | .1958                    |
| 92.7                | .6311                                | 5.252                    | .1904                    | 99.2                | .6134                                | 5.105                    | .1959                    |
| 92.8                | .6309                                | 5.250                    | .1905                    | 99.3                | .6131                                | 5.102                    | .1960                    |
| 92.9                | .6306                                | 5.248                    | .1905                    | 99.4                | .6128                                | 5.100                    | .1961                    |
| 93.0                | .6303                                | 5.246                    | .1906                    | 99.5                | .6126                                | 5.098                    | .1962                    |
| 93.1                | .6300                                | 5.243                    | .1907                    | 99.6                | .6123                                | 5.096                    | .1962                    |
| 93.2                | .6297                                | 5.240                    | .1908                    | 99.7                | .6120                                | 5.093                    | .1963                    |
| 93.3                | .6294                                | 5.238                    | .1909                    | 99.8                | .6118                                | 5.091                    | .1964                    |
| 93.4                | .6292                                | 5.236                    | .1910                    | 99.9                | .6115                                | 5.089                    | .1965                    |
|                     |                                      |                          |                          | 100.0               | .6112                                | 5.086                    | .1966                    |

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TABLE 6.—Degrees A. P. I. (Modulus 141.5) Corresponding to Degrees Baumé  
(Modulus 140).

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TABLE 6.—Degrees A. P. I. (Modulus 141.5) Corresponding to Degrees Baumé (Modulus 140).

| Degrees Baumé<br>(modulus 140). | Tenths of degrees Baumé. |       |       |       |       |       |       |       |       |       |
|---------------------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                 | 0                        | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     |
| 10.....                         | 10.00                    | 10.10 | 10.20 | 10.30 | 10.40 | 10.51 | 10.61 | 10.71 | 10.81 | 10.91 |
| 11.....                         | 11.01                    | 11.11 | 11.21 | 11.31 | 11.42 | 11.52 | 11.62 | 11.72 | 11.82 | 11.92 |
| 12.....                         | 12.02                    | 12.12 | 12.22 | 12.32 | 12.43 | 12.53 | 12.63 | 12.73 | 12.83 | 12.93 |
| 13.....                         | 13.03                    | 13.13 | 13.23 | 13.34 | 13.44 | 13.54 | 13.64 | 13.74 | 13.84 | 13.94 |
| 14.....                         | 14.04                    | 14.14 | 14.24 | 14.35 | 14.45 | 14.55 | 14.65 | 14.75 | 14.85 | 14.95 |
| 15.....                         | 15.05                    | 15.15 | 15.26 | 15.36 | 15.46 | 15.56 | 15.66 | 15.76 | 15.86 | 15.96 |
| 16.....                         | 16.06                    | 16.17 | 16.27 | 16.37 | 16.47 | 16.57 | 16.67 | 16.77 | 16.87 | 16.97 |
| 17.....                         | 17.08                    | 17.18 | 17.28 | 17.38 | 17.48 | 17.58 | 17.68 | 17.78 | 17.88 | 17.98 |
| 18.....                         | 18.09                    | 18.19 | 18.29 | 18.39 | 18.49 | 18.59 | 18.69 | 18.79 | 18.89 | 19.00 |
| 19.....                         | 19.10                    | 19.20 | 19.30 | 19.40 | 19.50 | 19.60 | 19.70 | 19.80 | 19.90 | 20.01 |
| 20.....                         | 20.11                    | 20.21 | 20.31 | 20.41 | 20.51 | 20.61 | 20.71 | 20.81 | 20.92 | 21.02 |
| 21.....                         | 21.12                    | 21.22 | 21.32 | 21.42 | 21.52 | 21.62 | 21.72 | 21.83 | 21.93 | 22.03 |
| 22.....                         | 22.13                    | 22.23 | 22.33 | 22.43 | 22.53 | 22.63 | 22.74 | 22.84 | 22.94 | 23.04 |
| 23.....                         | 23.14                    | 23.24 | 23.34 | 23.44 | 23.54 | 23.64 | 23.75 | 23.85 | 23.95 | 24.05 |
| 24.....                         | 24.15                    | 24.25 | 24.35 | 24.45 | 24.55 | 24.66 | 24.76 | 24.86 | 24.96 | 25.06 |
| 25.....                         | 25.16                    | 25.26 | 25.36 | 25.46 | 25.56 | 25.67 | 25.77 | 25.87 | 25.97 | 26.07 |
| 26.....                         | 26.17                    | 26.27 | 26.37 | 26.47 | 26.58 | 26.68 | 26.78 | 26.88 | 26.98 | 27.08 |
| 27.....                         | 27.18                    | 27.28 | 27.38 | 27.49 | 27.59 | 27.69 | 27.79 | 27.89 | 27.99 | 28.09 |
| 28.....                         | 28.19                    | 28.29 | 28.40 | 28.50 | 28.60 | 28.70 | 28.80 | 28.90 | 29.00 | 29.10 |
| 29.....                         | 29.20                    | 29.30 | 29.41 | 29.51 | 29.61 | 29.71 | 29.81 | 29.91 | 30.01 | 30.11 |
| 30.....                         | 30.21                    | 30.32 | 30.42 | 30.52 | 30.62 | 30.72 | 30.82 | 30.92 | 31.02 | 31.12 |
| 31.....                         | 31.22                    | 31.33 | 31.43 | 31.53 | 31.63 | 31.73 | 31.83 | 31.93 | 32.03 | 32.13 |
| 32.....                         | 32.24                    | 32.34 | 32.44 | 32.54 | 32.64 | 32.74 | 32.84 | 32.94 | 33.04 | 33.15 |
| 33.....                         | 33.25                    | 33.35 | 33.45 | 33.55 | 33.65 | 33.75 | 33.85 | 33.95 | 34.06 | 34.16 |
| 34.....                         | 34.26                    | 34.36 | 34.46 | 34.56 | 34.66 | 34.76 | 34.86 | 34.96 | 35.07 | 35.17 |
| 35.....                         | 35.27                    | 35.37 | 35.47 | 35.57 | 35.67 | 35.77 | 35.87 | 35.98 | 36.08 | 36.18 |
| 36.....                         | 36.28                    | 36.38 | 36.48 | 36.58 | 36.68 | 36.78 | 36.88 | 36.99 | 37.09 | 37.19 |
| 37.....                         | 37.29                    | 37.39 | 37.49 | 37.59 | 37.69 | 37.79 | 37.90 | 38.00 | 38.10 | 38.20 |
| 38.....                         | 38.30                    | 38.40 | 38.50 | 38.60 | 38.70 | 38.81 | 38.91 | 39.01 | 39.11 | 39.21 |
| 39.....                         | 39.31                    | 39.41 | 39.51 | 39.61 | 39.72 | 39.82 | 39.92 | 40.02 | 40.12 | 40.22 |
| 40.....                         | 40.32                    | 40.42 | 40.52 | 40.62 | 40.73 | 40.83 | 40.93 | 41.03 | 41.13 | 41.23 |
| 41.....                         | 41.33                    | 41.43 | 41.53 | 41.64 | 41.74 | 41.84 | 41.94 | 42.04 | 42.14 | 42.24 |
| 42.....                         | 42.34                    | 42.44 | 42.54 | 42.65 | 42.75 | 42.85 | 42.95 | 43.05 | 43.15 | 43.25 |
| 43.....                         | 43.35                    | 43.45 | 43.56 | 43.66 | 43.76 | 43.86 | 43.96 | 44.06 | 44.16 | 44.26 |
| 44.....                         | 44.36                    | 44.47 | 44.57 | 44.67 | 44.77 | 44.87 | 44.97 | 45.07 | 45.17 | 45.27 |
| 45.....                         | 45.38                    | 45.48 | 45.58 | 45.68 | 45.78 | 45.88 | 45.98 | 46.08 | 46.18 | 46.28 |
| 46.....                         | 46.39                    | 46.49 | 46.59 | 46.69 | 46.79 | 46.89 | 46.99 | 47.09 | 47.19 | 47.30 |
| 47.....                         | 47.40                    | 47.50 | 47.60 | 47.70 | 47.80 | 47.90 | 48.00 | 48.10 | 48.20 | 48.31 |
| 48.....                         | 48.41                    | 48.51 | 48.61 | 48.71 | 48.81 | 48.91 | 49.01 | 49.11 | 49.22 | 49.32 |
| 49.....                         | 49.42                    | 49.52 | 49.62 | 49.72 | 49.82 | 49.92 | 50.02 | 50.13 | 50.23 | 50.33 |
| 50.....                         | 50.43                    | 50.53 | 50.63 | 50.73 | 50.83 | 50.93 | 51.04 | 51.14 | 51.24 | 51.34 |
| 51.....                         | 51.44                    | 51.54 | 51.64 | 51.74 | 51.84 | 51.94 | 52.05 | 52.15 | 52.25 | 52.35 |
| 52.....                         | 52.45                    | 52.55 | 52.65 | 52.75 | 52.85 | 52.96 | 53.06 | 53.16 | 53.26 | 53.36 |
| 53.....                         | 53.46                    | 53.56 | 53.66 | 53.76 | 53.86 | 53.97 | 54.07 | 54.17 | 54.27 | 54.37 |
| 54.....                         | 54.47                    | 54.57 | 54.67 | 54.77 | 54.88 | 54.98 | 55.08 | 55.18 | 55.28 | 55.38 |
| 55.....                         | 55.48                    | 55.58 | 55.68 | 55.79 | 55.89 | 55.99 | 56.09 | 56.19 | 56.29 | 56.39 |
| 56.....                         | 56.49                    | 56.59 | 56.70 | 56.80 | 56.90 | 57.00 | 57.10 | 57.20 | 57.30 | 57.40 |
| 57.....                         | 57.50                    | 57.60 | 57.71 | 57.81 | 57.91 | 58.01 | 58.11 | 58.21 | 58.31 | 58.41 |
| 58.....                         | 58.51                    | 58.62 | 58.72 | 58.82 | 58.92 | 59.02 | 59.12 | 59.22 | 59.32 | 59.42 |
| 59.....                         | 59.52                    | 59.63 | 59.73 | 59.83 | 59.93 | 60.03 | 60.13 | 60.23 | 60.33 | 60.43 |
| 60.....                         | 60.54                    | 60.64 | 60.74 | 60.84 | 60.94 | 61.04 | 61.14 | 61.24 | 61.34 | 61.45 |
| 61.....                         | 61.55                    | 61.65 | 61.75 | 61.85 | 61.95 | 62.05 | 62.15 | 62.25 | 62.36 | 62.46 |
| 62.....                         | 62.56                    | 62.66 | 62.76 | 62.86 | 62.96 | 63.06 | 63.16 | 63.26 | 63.37 | 63.47 |
| 63.....                         | 63.57                    | 63.67 | 63.77 | 63.87 | 63.97 | 64.07 | 64.17 | 64.28 | 64.38 | 64.48 |
| 64.....                         | 64.58                    | 64.68 | 64.78 | 64.88 | 64.98 | 65.08 | 65.18 | 65.29 | 65.39 | 65.49 |
| 65.....                         | 65.59                    | 65.69 | 65.79 | 65.89 | 65.99 | 66.09 | 66.20 | 66.30 | 66.40 | 66.50 |
| 66.....                         | 66.60                    | 66.70 | 66.80 | 66.90 | 67.00 | 67.11 | 67.21 | 67.31 | 67.41 | 67.51 |
| 67.....                         | 67.61                    | 67.71 | 67.81 | 67.91 | 68.02 | 68.12 | 68.22 | 68.32 | 68.42 | 68.52 |
| 68.....                         | 68.62                    | 68.72 | 68.82 | 68.92 | 69.03 | 69.13 | 69.23 | 69.33 | 69.43 | 69.53 |
| 69.....                         | 69.63                    | 69.73 | 69.83 | 69.94 | 70.04 | 70.14 | 70.24 | 70.34 | 70.44 | 70.54 |
| 70.....                         | 70.64                    | 70.74 | 70.84 | 70.95 | 71.05 | 71.15 | 71.25 | 71.35 | 71.45 | 71.55 |
| 71.....                         | 71.65                    | 71.75 | 71.86 | 71.96 | 72.06 | 72.16 | 72.26 | 72.36 | 72.46 | 72.56 |
| 72.....                         | 72.66                    | 72.77 | 72.87 | 72.97 | 73.07 | 73.17 | 73.27 | 73.37 | 73.47 | 73.57 |
| 73.....                         | 73.68                    | 73.78 | 73.88 | 73.98 | 74.08 | 74.18 | 74.28 | 74.38 | 74.48 | 74.58 |
| 74.....                         | 74.69                    | 74.79 | 74.89 | 74.99 | 75.09 | 75.19 | 75.29 | 75.39 | 75.49 | 75.60 |

**TABLE 6.—Degrees A. P. I. (Modulus 141.5) Corresponding to Degrees Baumé (Modulus 140)—Continued.**

| Degrees Baumé<br>(modulus 140). | Tenths of degrees Baumé. |        |        |        |        |        |        |        |        |        |
|---------------------------------|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                 | 0                        | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 75.....                         | 75.70                    | 75.80  | 75.90  | 76.00  | 76.10  | 76.20  | 76.30  | 76.40  | 76.50  | 76.61  |
| 76.....                         | 76.71                    | 76.81  | 76.91  | 77.01  | 77.11  | 77.21  | 77.31  | 77.41  | 77.52  | 77.62  |
| 77.....                         | 77.72                    | 77.82  | 77.92  | 78.02  | 78.12  | 78.22  | 78.32  | 78.43  | 78.53  | 78.63  |
| 78.....                         | 78.73                    | 78.83  | 78.93  | 79.03  | 79.13  | 79.23  | 79.34  | 79.44  | 79.54  | 79.64  |
| 79.....                         | 79.74                    | 79.84  | 79.94  | 80.04  | 80.14  | 80.24  | 80.35  | 80.45  | 80.55  | 80.65  |
| 80.....                         | 80.75                    | 80.85  | 80.95  | 81.05  | 81.15  | 81.26  | 81.36  | 81.46  | 81.56  | 81.66  |
| 81.....                         | 81.76                    | 81.86  | 81.96  | 82.06  | 82.16  | 82.27  | 82.37  | 82.47  | 82.57  | 82.67  |
| 82.....                         | 82.77                    | 82.87  | 82.97  | 83.07  | 83.18  | 83.28  | 83.38  | 83.48  | 83.58  | 83.68  |
| 83.....                         | 83.78                    | 83.88  | 83.98  | 84.09  | 84.19  | 84.29  | 84.39  | 84.49  | 84.59  | 84.69  |
| 84.....                         | 84.79                    | 84.89  | 85.00  | 85.10  | 85.20  | 85.30  | 85.40  | 85.50  | 85.60  | 85.70  |
| 85.....                         | 85.80                    | 85.90  | 86.01  | 86.11  | 86.21  | 86.31  | 86.41  | 86.51  | 86.61  | 86.71  |
| 86.....                         | 86.81                    | 86.92  | 87.02  | 87.12  | 87.22  | 87.32  | 87.42  | 87.52  | 87.62  | 87.72  |
| 87.....                         | 87.82                    | 87.93  | 88.03  | 88.13  | 88.23  | 88.33  | 88.43  | 88.53  | 88.63  | 88.73  |
| 88.....                         | 88.84                    | 88.94  | 89.04  | 89.14  | 89.24  | 89.34  | 89.44  | 89.54  | 89.64  | 89.75  |
| 89.....                         | 89.85                    | 89.95  | 90.05  | 90.15  | 90.25  | 90.35  | 90.45  | 90.55  | 90.66  | 90.76  |
| 90.....                         | 90.86                    | 90.96  | 91.06  | 91.16  | 91.26  | 91.36  | 91.46  | 91.56  | 91.67  | 91.77  |
| 91.....                         | 91.87                    | 91.97  | 92.07  | 92.17  | 92.27  | 92.37  | 92.47  | 92.58  | 92.68  | 92.78  |
| 92.....                         | 92.88                    | 92.98  | 93.08  | 93.18  | 93.28  | 93.38  | 93.48  | 93.59  | 93.69  | 93.79  |
| 93.....                         | 93.89                    | 93.99  | 94.09  | 94.19  | 94.29  | 94.39  | 94.50  | 94.60  | 94.70  | 94.80  |
| 94.....                         | 94.90                    | 95.00  | 95.10  | 95.20  | 95.30  | 95.41  | 95.51  | 95.61  | 95.71  | 95.81  |
| 95.....                         | 95.91                    | 96.01  | 96.11  | 96.21  | 96.32  | 96.42  | 96.52  | 96.62  | 96.72  | 96.82  |
| 96.....                         | 96.92                    | 97.02  | 97.12  | 97.22  | 97.33  | 97.43  | 97.53  | 97.63  | 97.73  | 97.83  |
| 97.....                         | 97.93                    | 98.03  | 98.13  | 98.24  | 98.34  | 98.44  | 98.54  | 98.64  | 98.74  | 98.84  |
| 98.....                         | 98.94                    | 99.04  | 99.14  | 99.25  | 99.35  | 99.45  | 99.55  | 99.65  | 99.75  | 99.85  |
| 99.....                         | 99.95                    | 100.05 | 100.16 | 100.26 | 100.36 | 100.46 | 100.56 | 100.66 | 100.76 | 100.86 |
| 100.....                        | 100.96                   |        |        |        |        |        |        |        |        |        |









